



US008700505B2

(12) **United States Patent**
McCrea

(10) **Patent No.:** **US 8,700,505 B2**
(45) **Date of Patent:** **Apr. 15, 2014**

(54) **SYSTEM AND METHOD FOR IMPROVED TIME REPORTING AND BILLING**

(75) Inventor: **Frank McCrea**, Toronto (CA)

(73) Assignee: **Keal, Inc.** (CA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1877 days.

(21) Appl. No.: **11/514,203**

(22) Filed: **Sep. 1, 2006**

(65) **Prior Publication Data**

US 2007/0094110 A1 Apr. 26, 2007

Related U.S. Application Data

(63) Continuation of application No. 10/862,762, filed on Jun. 7, 2004.

(51) **Int. Cl.**
G07F 19/00 (2006.01)

(52) **U.S. Cl.**
USPC **705/34; 705/8**

(58) **Field of Classification Search**
USPC 705/34
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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2008/0120152	A1	5/2008	McCrea	

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www.taleo.com.
www.beeline.com.
www.procurestaff.com.
www.iqnavigator.com see attached excerpts.
www.cncglobal.com see attached excerpts.
U.S. Appl. No. 10/862,762, filed Jun. 7, 2004.
Office Action dated Mar. 18, 2009 issued on U.S. Appl. No. 10/862,762.

* cited by examiner

Primary Examiner — Garcia Ade

(74) *Attorney, Agent, or Firm* — Merek, Blackmon & Voorhees, LLC

(57) **ABSTRACT**

The present invention provides an integrated time reporting and billing solution that facilitates billing and payment for time-related activities and manages contract workflow from end to end. The present invention can be employed in any industry for any employment relationship where in-house or supplemental contract labor is tracked by time. In one embodiment, the invention includes a contractor submission and tracking system (CSTS) and back office workflow management system (BOSS) to track and report vendor activity and contractor spend. The present invention can be used by employer-clients, contractors and contractor suppliers to facilitate contractor requisition, contract creation and modification, document tracking, business rule implementation, reporting, communications, timesheet entry, timesheet approval, and billing presentment, payment and other aspects of contract workflow management.

22 Claims, 68 Drawing Sheets

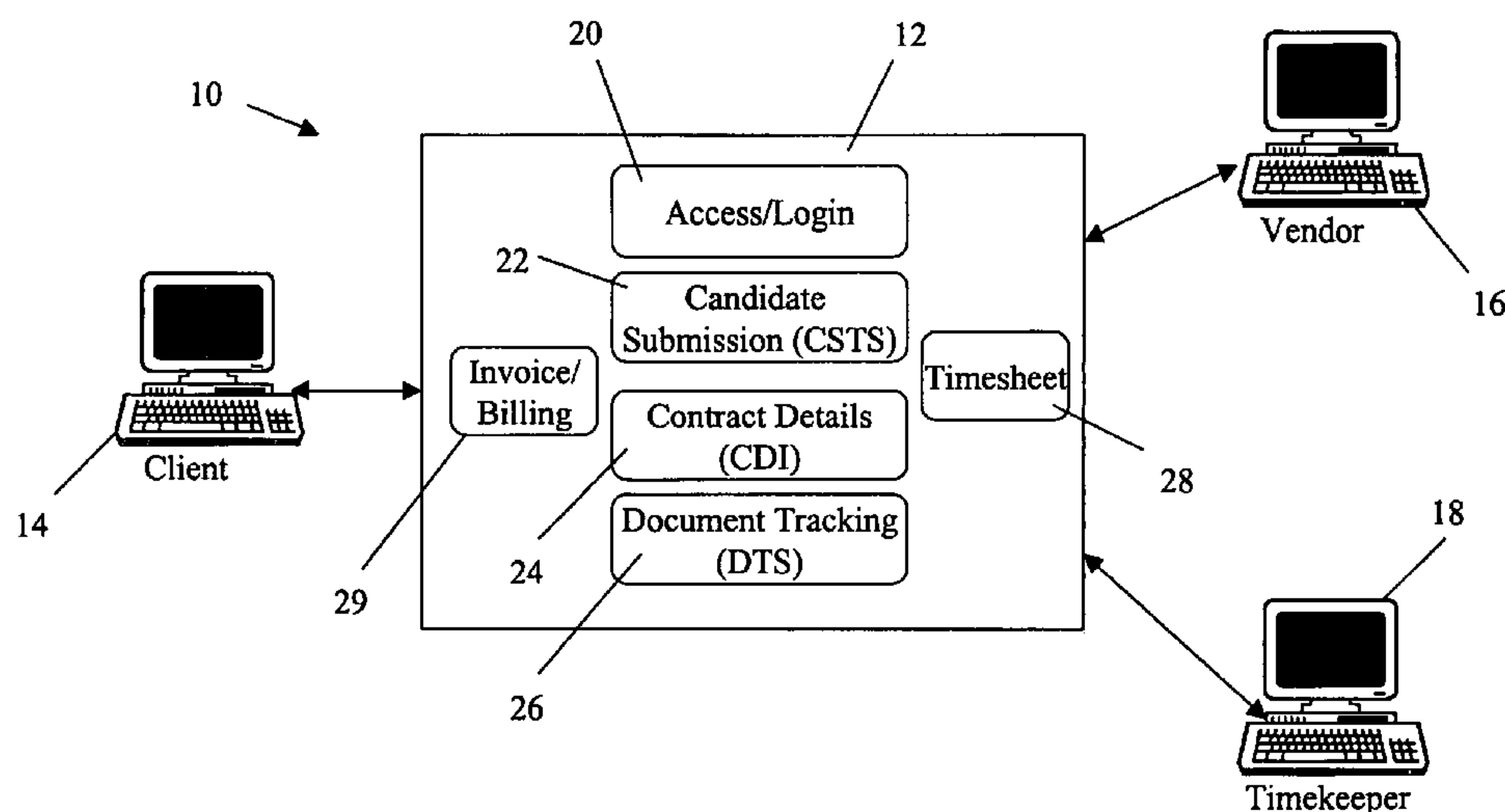


Fig. 1

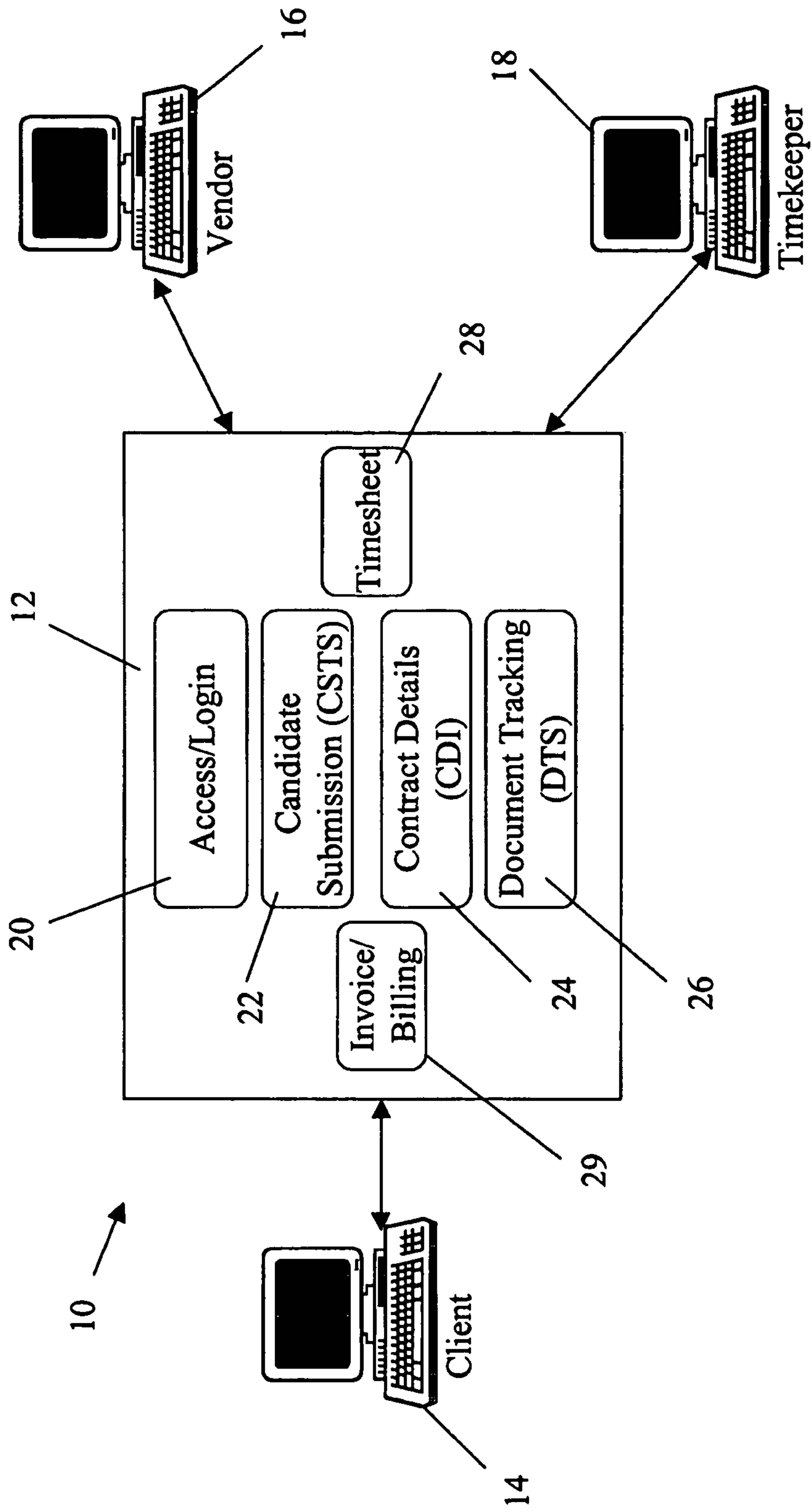


Fig. 2

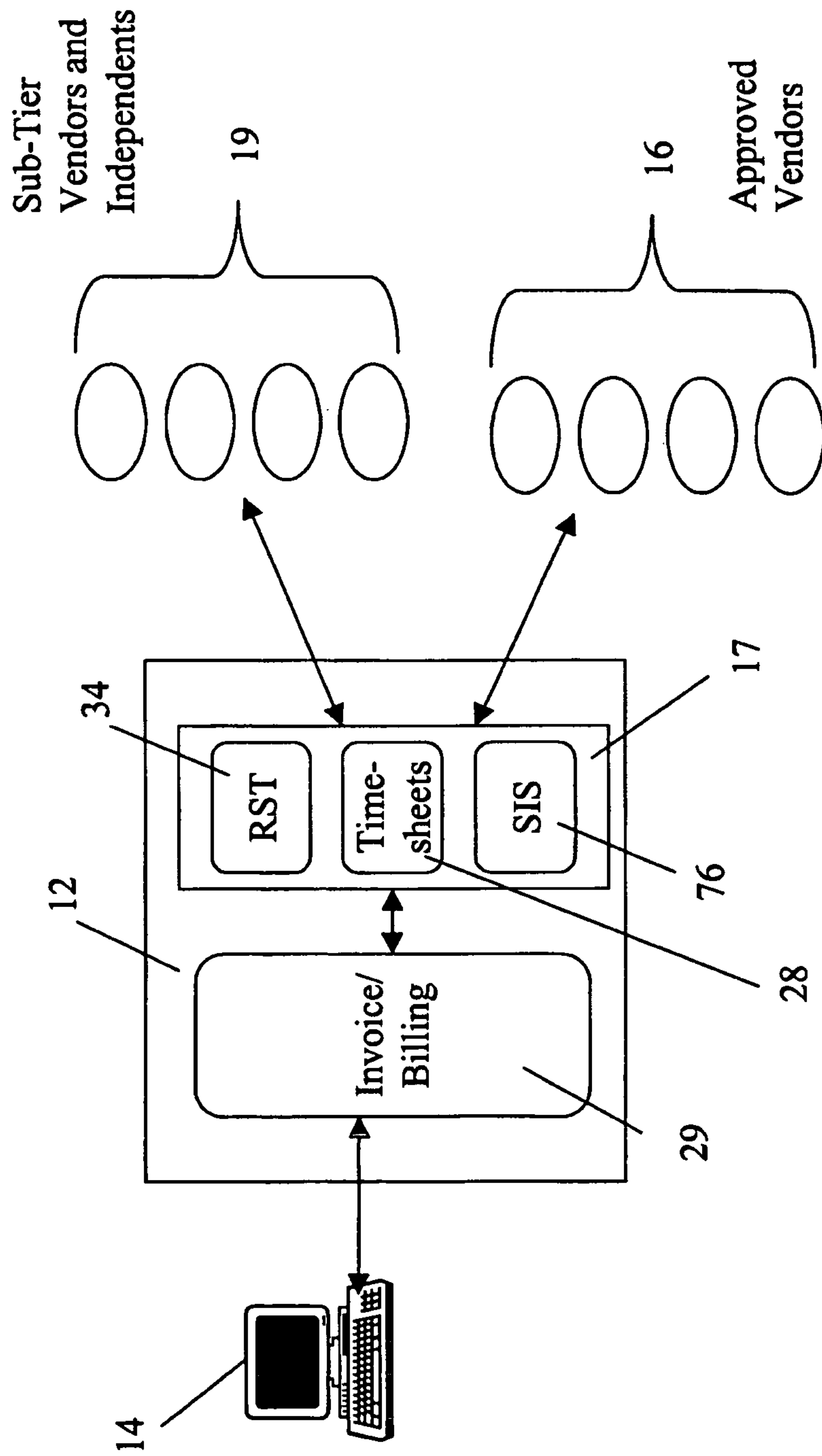
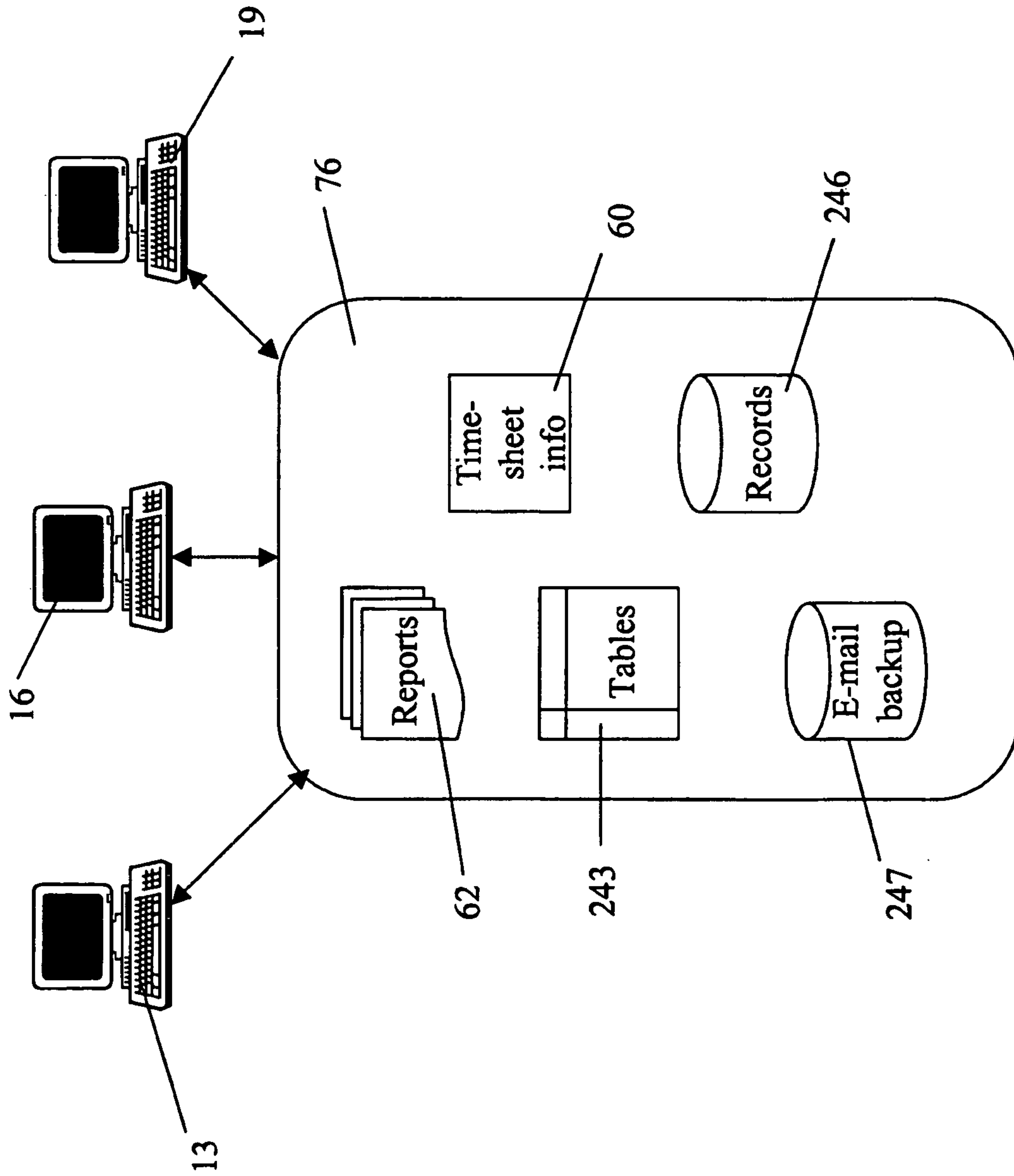
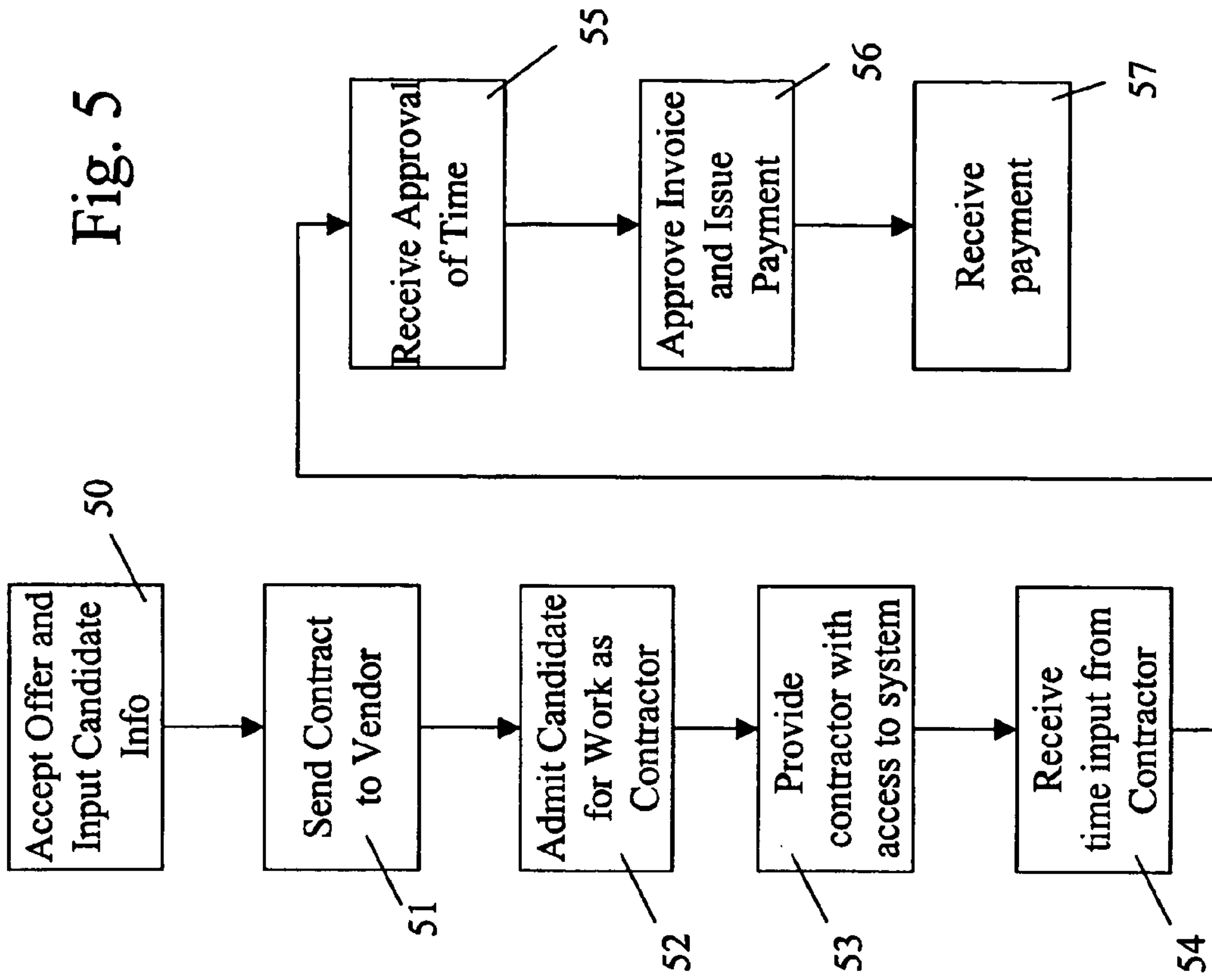
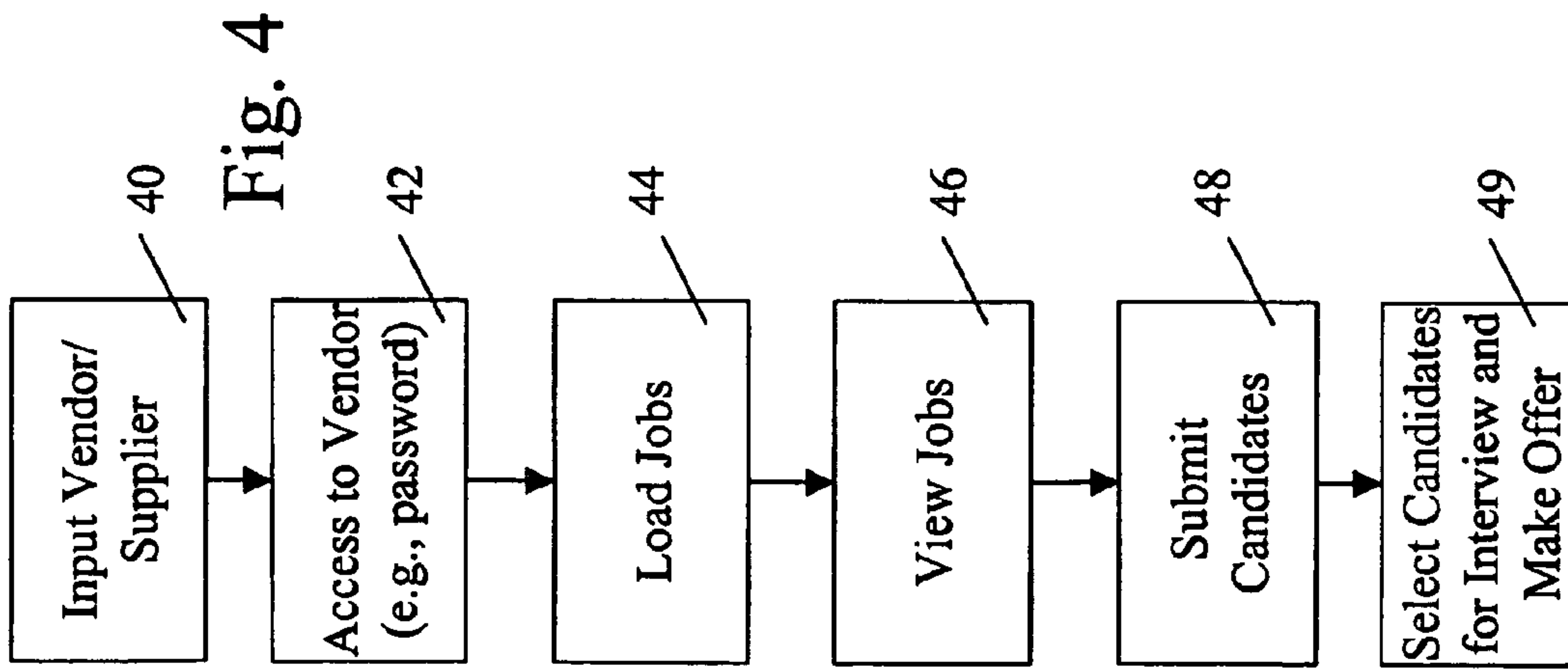


Fig. 3





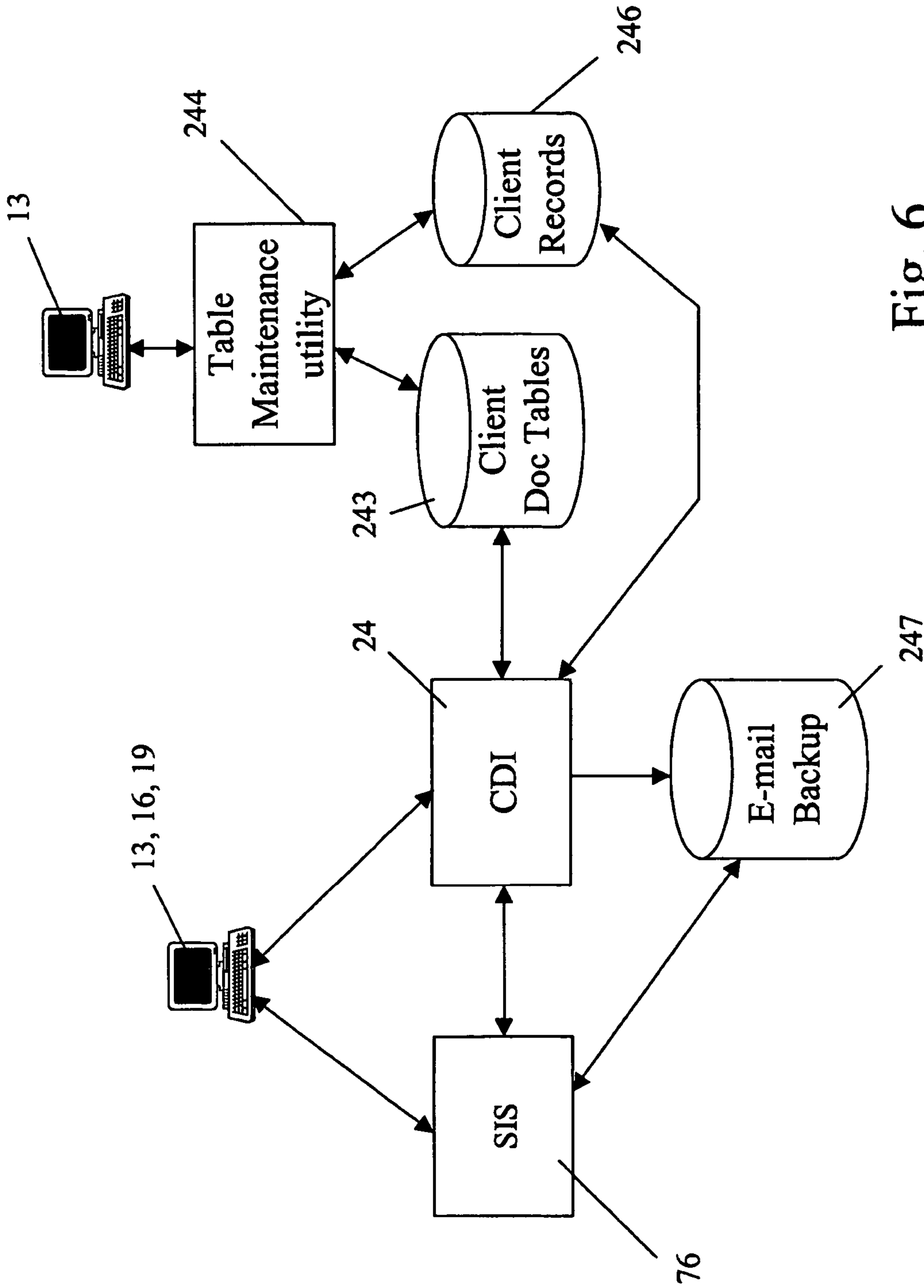


Fig. 6

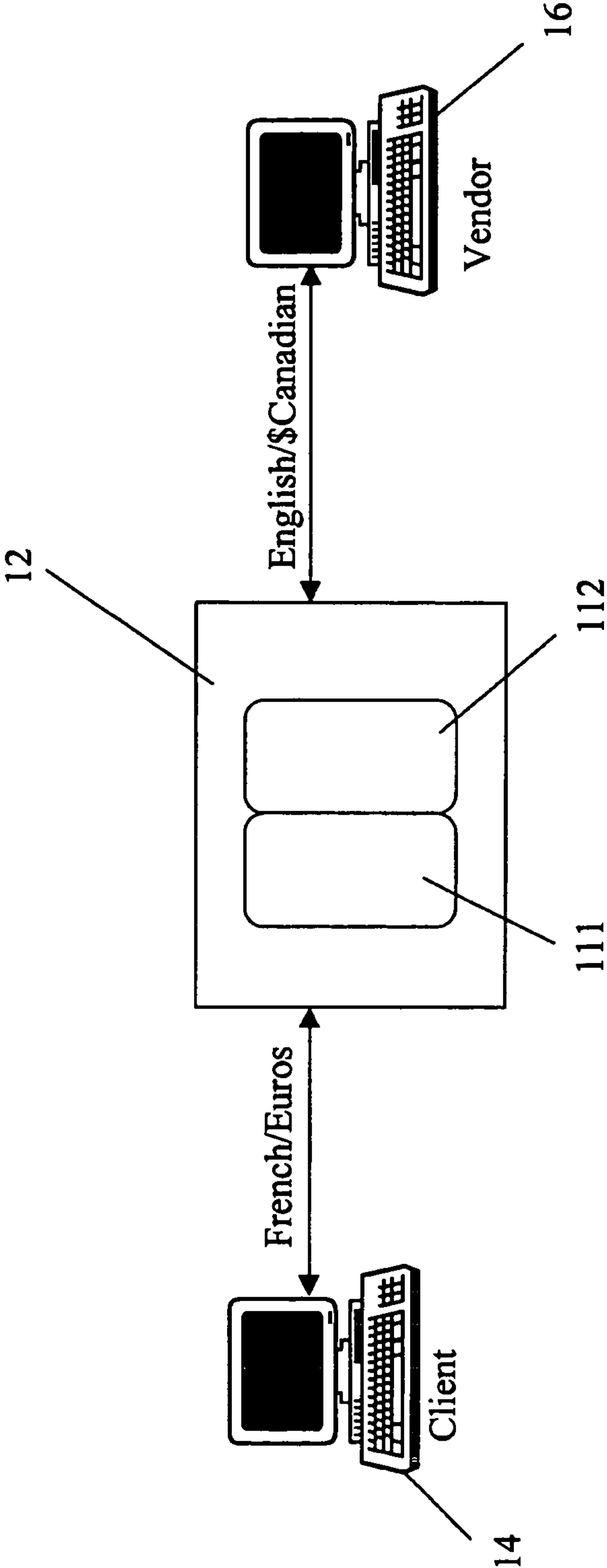


Fig. 7

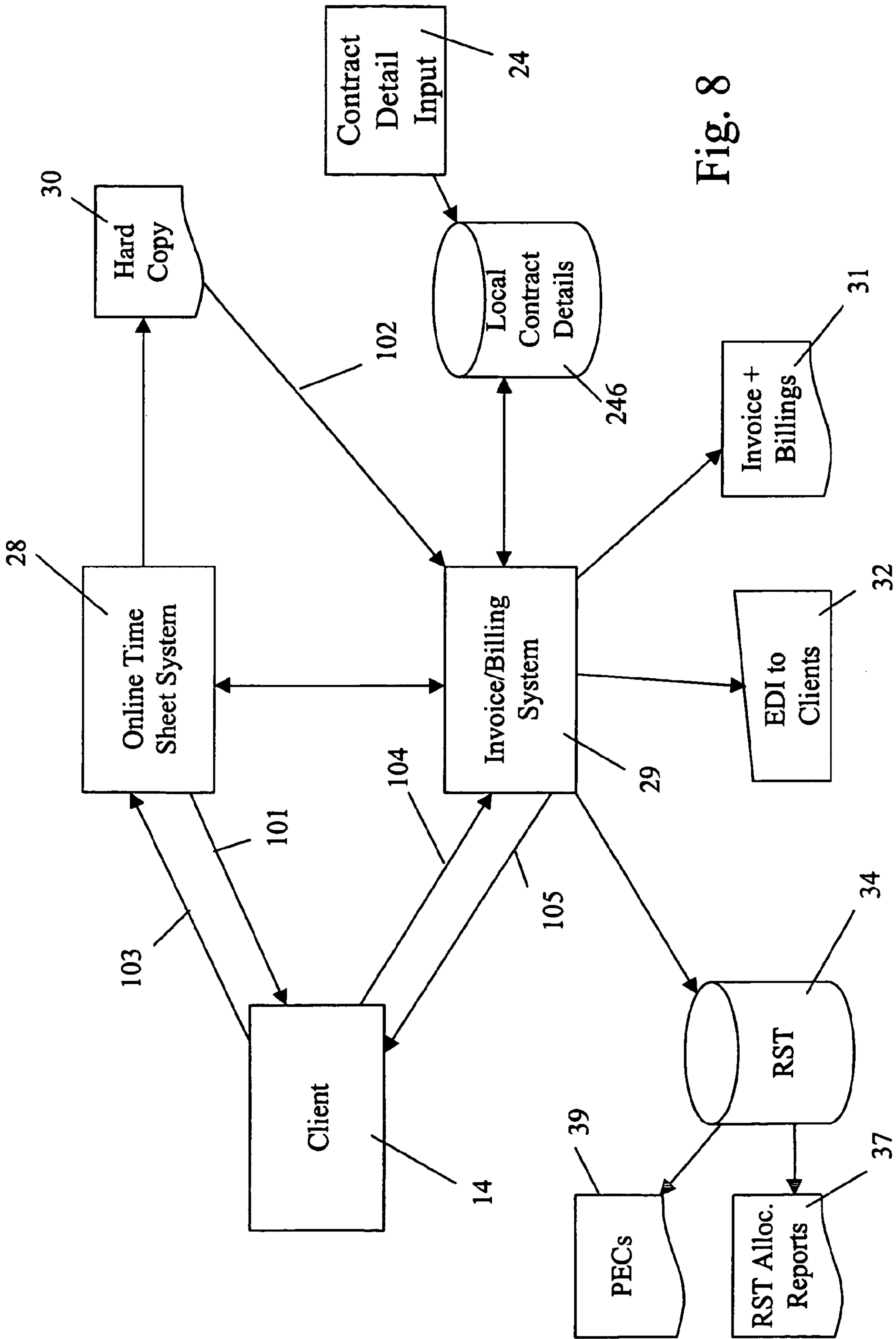


Fig. 8

Fig. 9

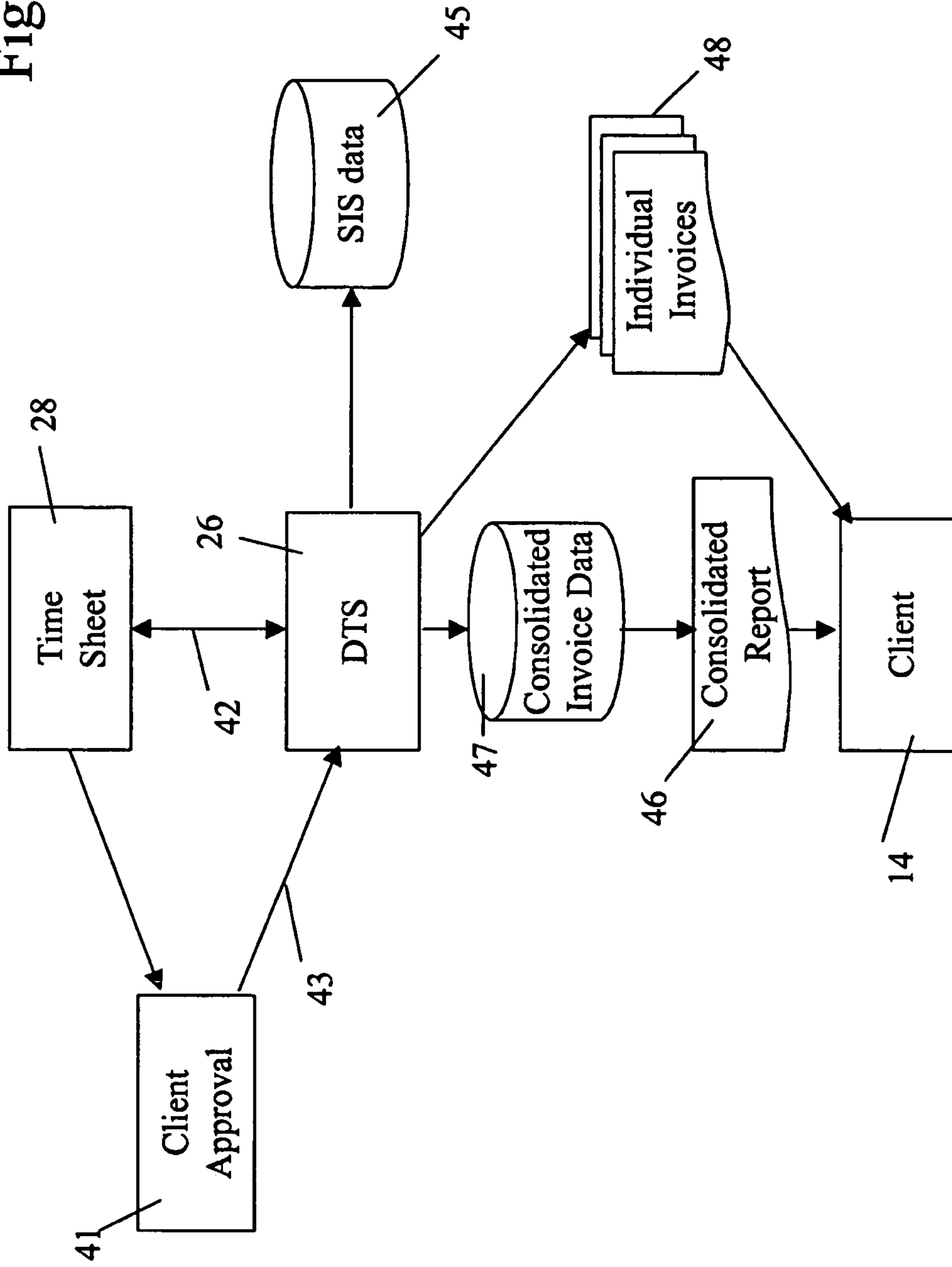


Fig. 10

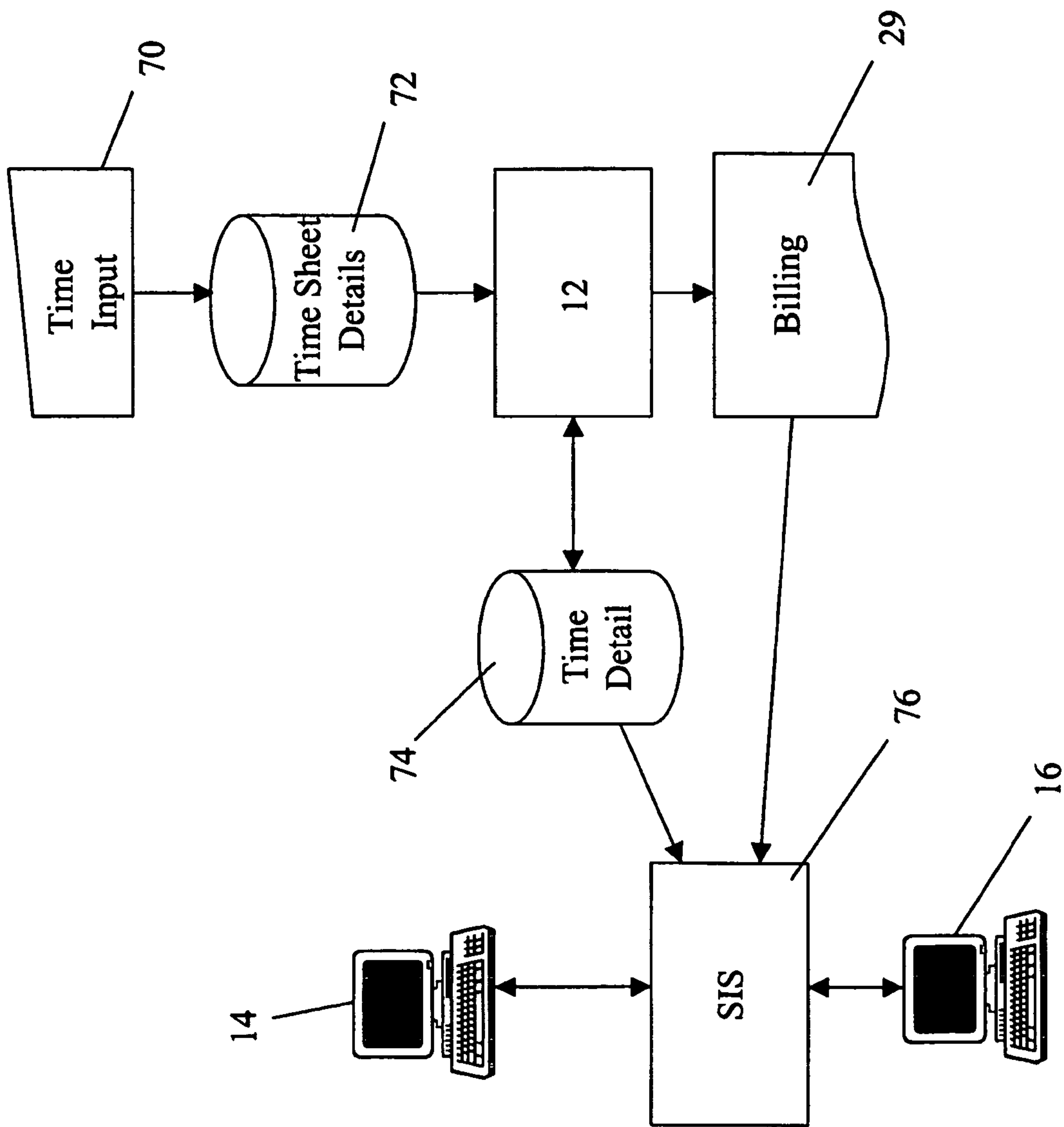
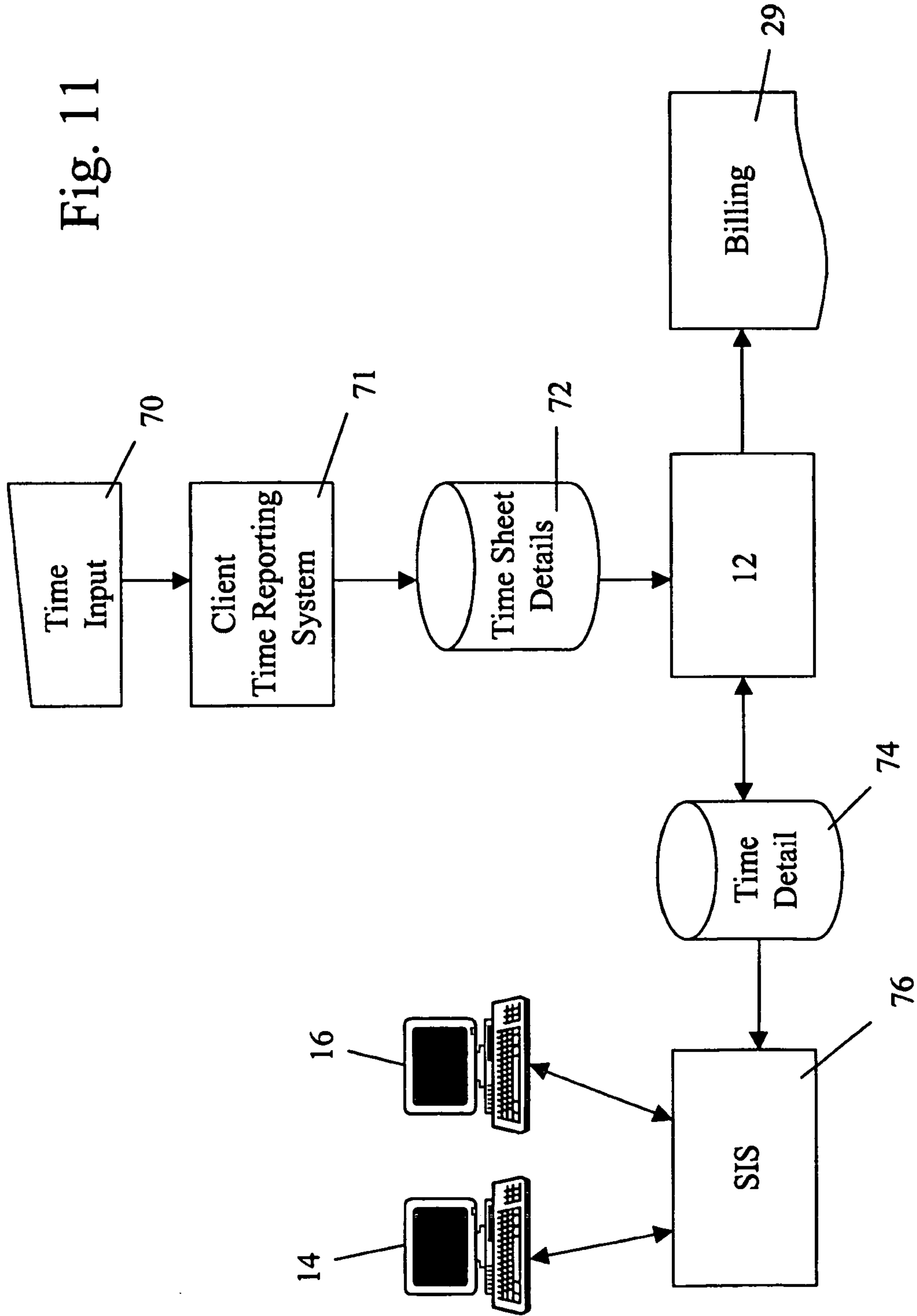


Fig. 11



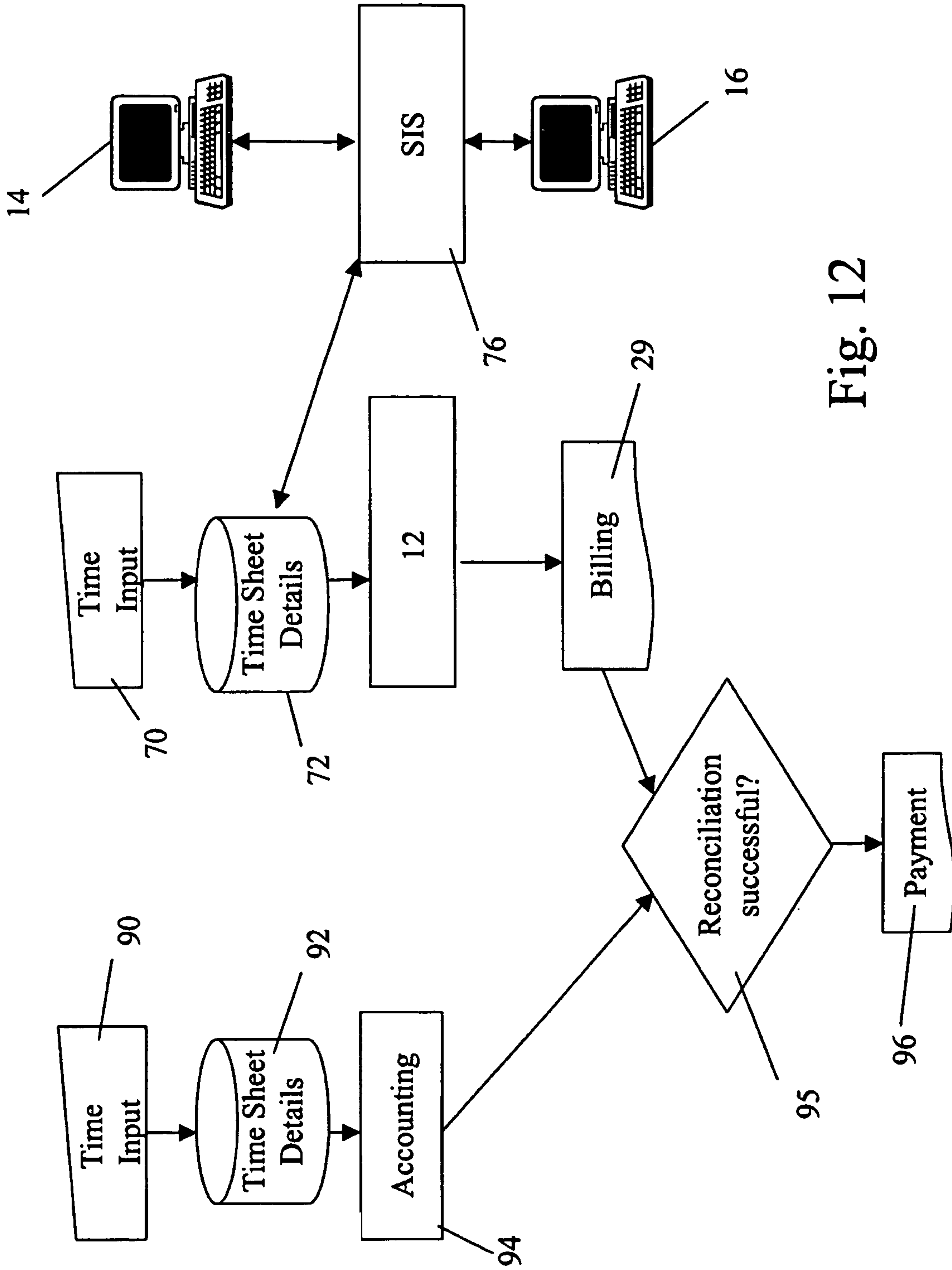


Fig. 12

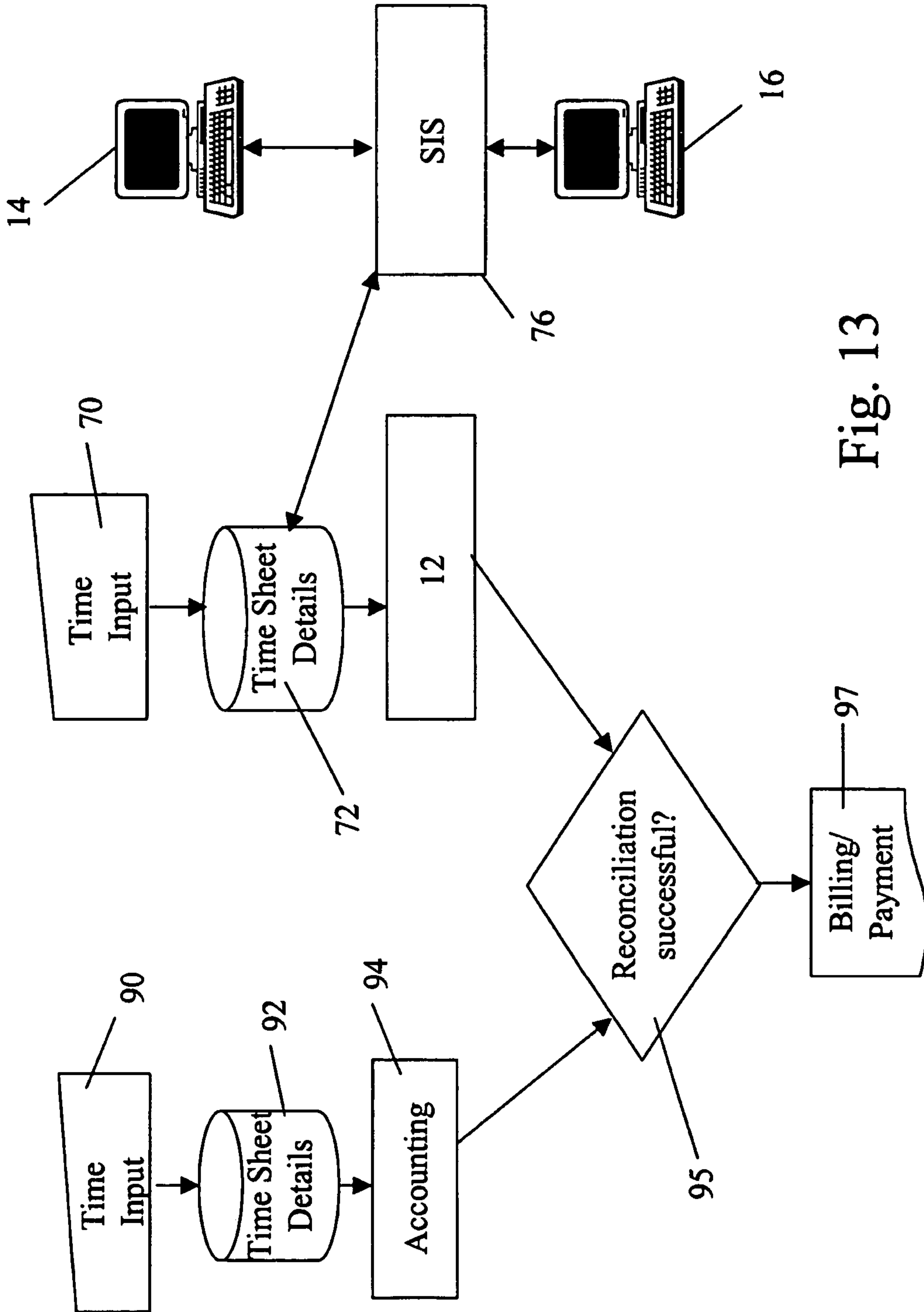


Fig. 13

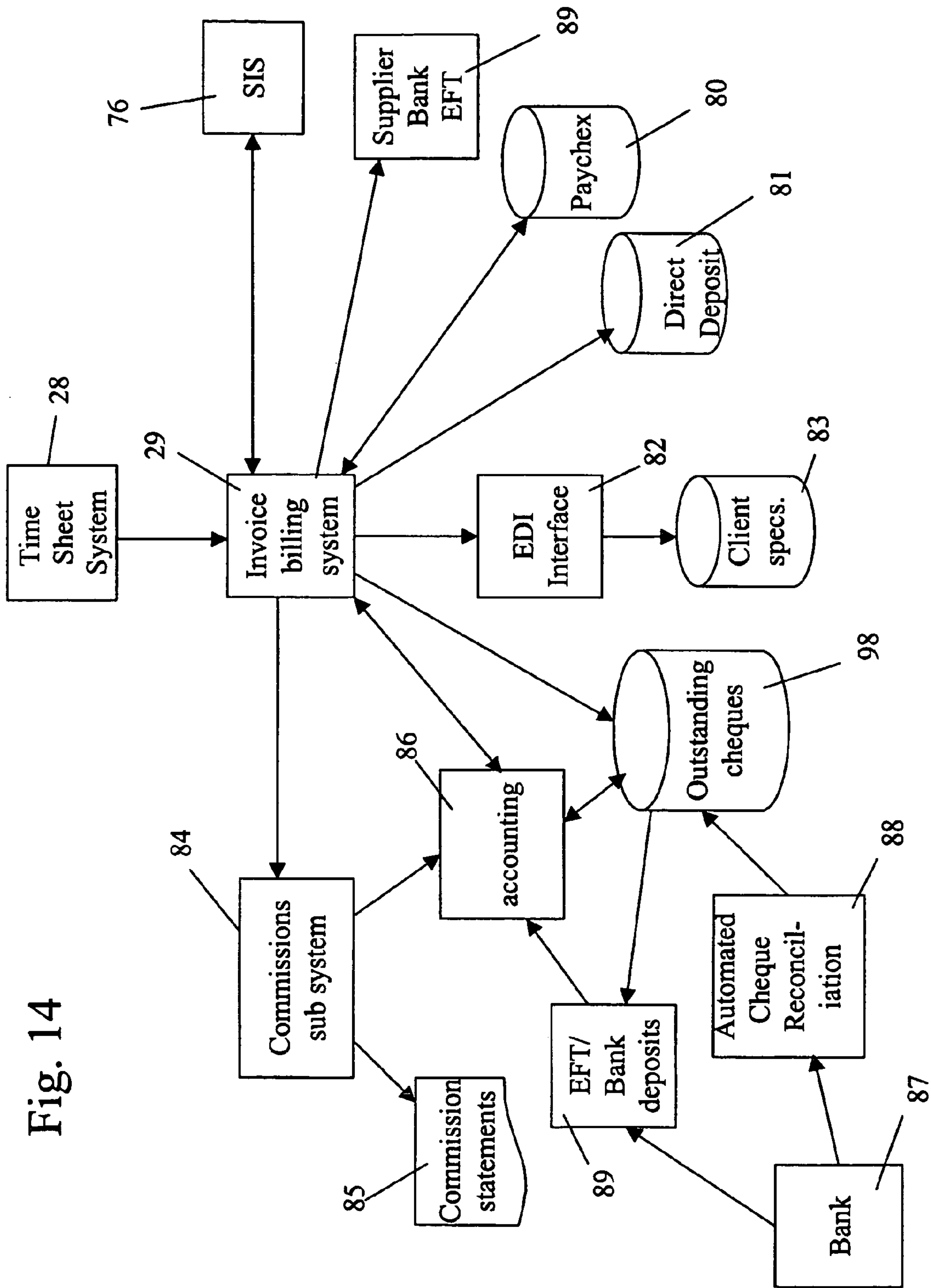


Fig. 14

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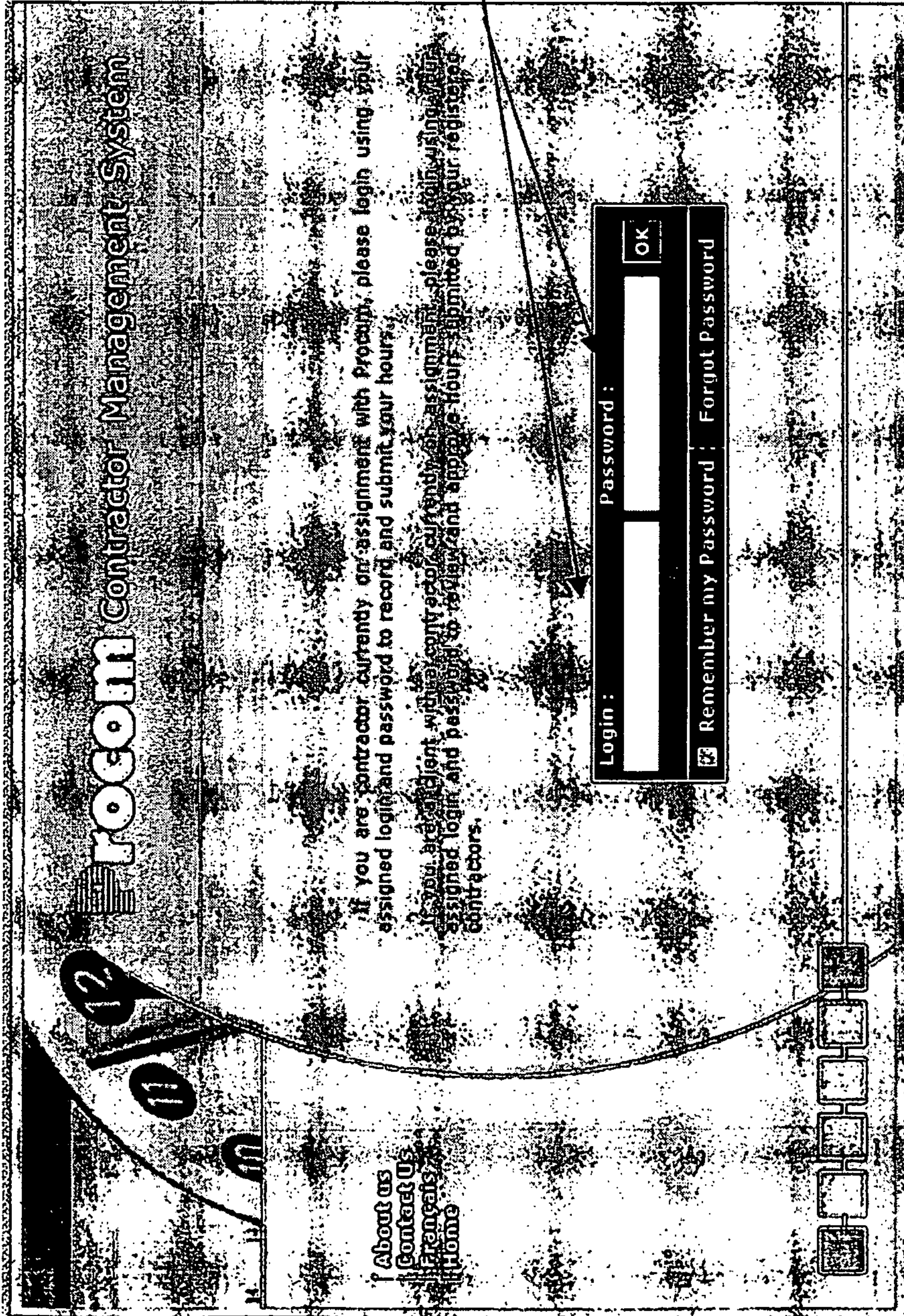


Fig. 15

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Procorm Contractor Management System

Timesheet Management | Contract Management | Requisition Management | Reports | My Profile | Logout | [User Name]

Select Timesheet to be displayed:

Pay Period	Submitted	Approved	Rejected	Refresh			
ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Select	Consultant	Source	Pay Period	Days/Hour	Rejected	Cont. End	TS Status
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	JUN 01-JUN 30	157.50		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	JUN 01-JUL 31	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	AUG 01-AUG 31	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	SEP 01-SEP 30	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	OCT 01-OCT 31	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	NOV 01-NOV 30	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	FEB 01-FEB 29	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	MAR 01-MAR 31	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	APR 01-APR 30	157.50		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	MAY 01-MAY 31	150		31-Dec-2005	Approved
<input checked="" type="checkbox"/>	Timothy Smithson	Procorm	JUN 01-JUN 30	150		31-Dec-2005	Approved

Approve | Reject | Print Preview

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Fig. 16

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Procom Contractor Management System

Alice Campbell Logout My Profile

Requisition Management Reports Timothy Smithson

Contract Management

Timesheet Management

Submitted for Approval Time Period: Jun 1, 2004 to Jun 30, 2004 Invoice to Alice Campbell

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
Week #23		Jun 1	Jun 2	Jun 3	Jun 4	Jun 5	Jun 6	30.00
Regular Hours		7.50	7.50	7.50	7.50	7.50		
Week #24	Jun 6	Jun 7	Jun 8	Jun 9	Jun 10	Jun 11	Jun 12	37.50
Regular Hours	7.50	7.50	7.50	7.50	7.50	7.50		
Week #25	Jun 13	Jun 14	Jun 15	Jun 16	Jun 17	Jun 18	Jun 19	37.50
Regular Hours	7.50	7.50	7.50	7.50	7.50	7.50		
Week #26	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24	Jun 25	Jun 26	37.50
Regular Hours	7.50	7.50	7.50	7.50	7.50	7.50		
Week #27	Jun 27	Jun 28	Jun 29	Jun 30				22.50
Regular Hours	7.50	7.50	7.50					
								163.50

Print/Preview Total

Approve Reject

Fig. 17

172

180

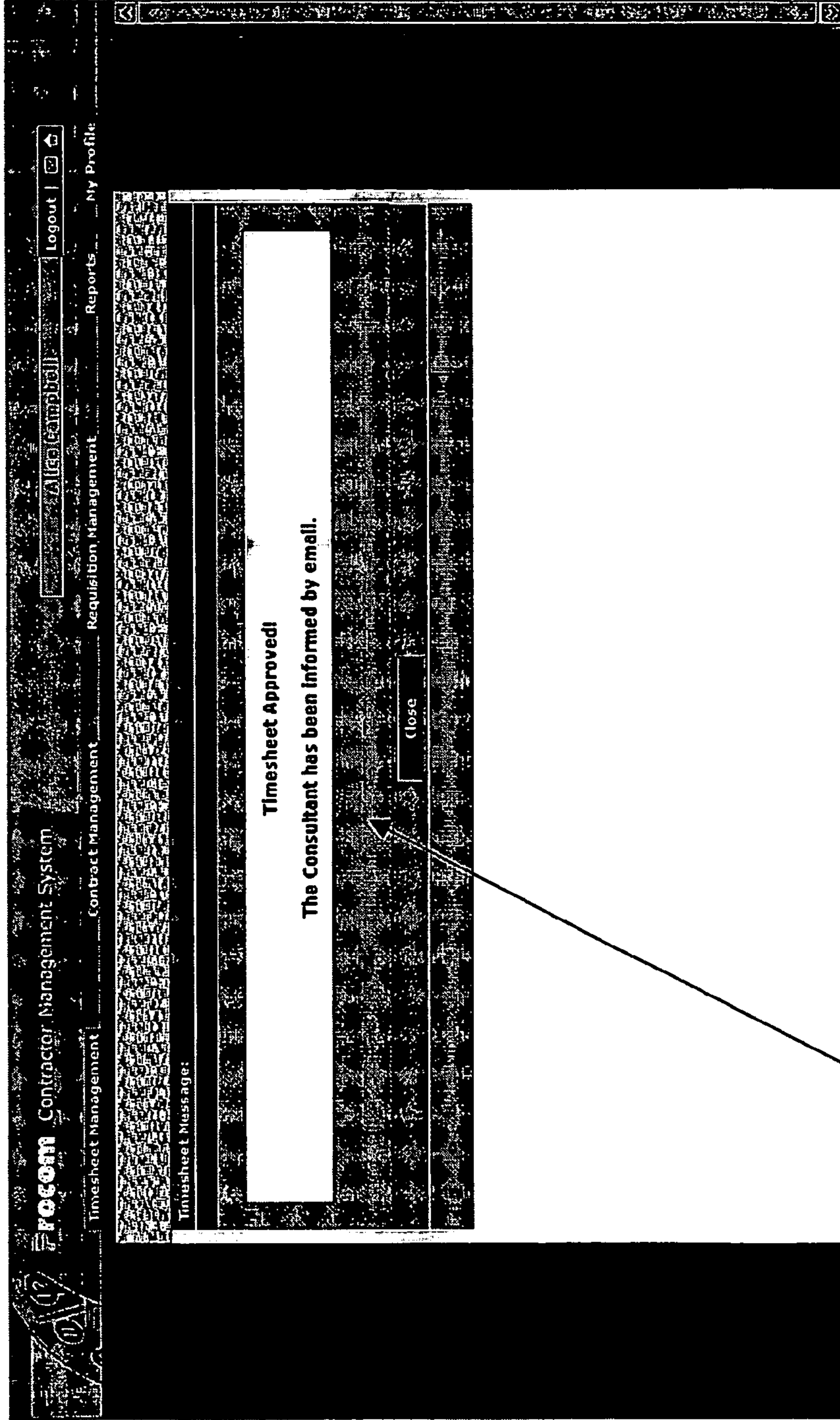


Fig. 18

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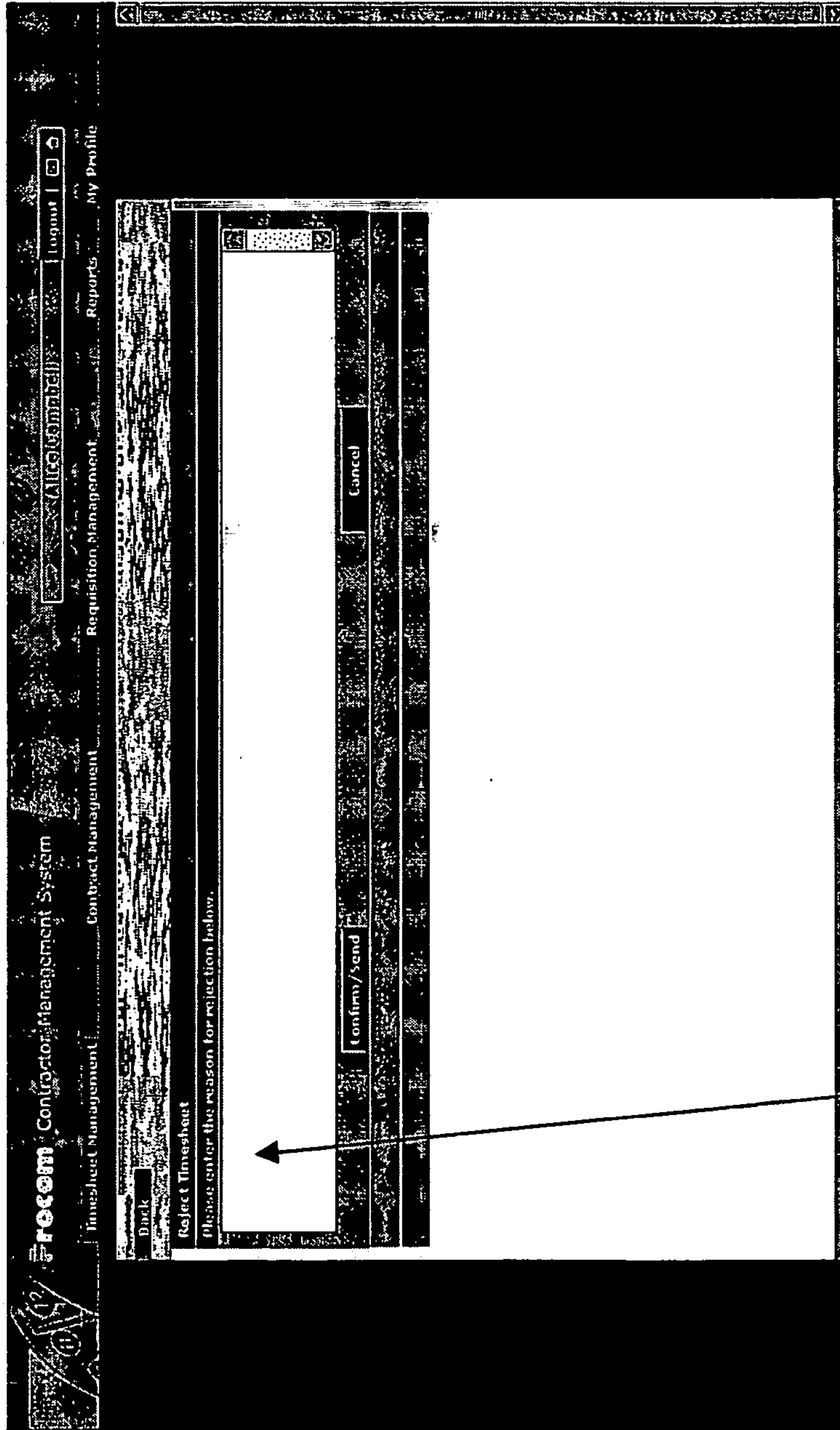


Fig. 19

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STATEMENT OF WORK COMPLETED

TID:103058

TIME PERIOD: Jun 1, 2003 to Jun 30, 2003 For: Timothy Smithson
TIMESHEET FOR CLIENT : ABC Company Ltd.

Timesheet Approved							
SUN	MON	TUE	WED	THU	FRI	SAT	WEEKLY TOTAL
Jun 1	Jun 2	Jun 3	Jun 4	Jun 5	Jun 6	Jun 7	
7.50	7.50	7.50	7.50	7.50	7.50		37.50
Jun 8	Jun 9	Jun 10	Jun 11	Jun 12	Jun 13	Jun 14	
7.50	7.50	7.50	7.50	7.50	7.50		37.50
Jun 15	Jun 16	Jun 17	Jun 18	Jun 19	Jun 20	Jun 21	
7.50	7.50	7.50	7.50	7.50	7.50		37.50
Jun 22	Jun 23	Jun 24	Jun 25	Jun 26	Jun 27	Jun 28	
7.50	7.50	7.50	7.50	7.50	7.50		37.50
Jun 29	Jun 30						7.50
7.50							
Total							157.50

CONSULTANT SIGNATURE: _____

WAS THE AUTHORIZED CLIENT REPRESENTATIVE, I HEREBY ACKNOWLEDGE THAT THE ABOVE MENTIONED CONSULTANT HAS WORKED THE NUMBER OF HOURS INDICATED, THAT I HAVE VERIFIED THE WORK AND THAT I AM SATISFIED WITH THE QUALITY THEREOF. EN TANT QUE REPRESENTANT AUTORISE DU CLIENT, JE RECONNAIS PAR CE CI QUE LE CONSEILLER MENTIONNES CI-DESSUS A TRAVAILLE LE NOMBRE D'HEURES INDIQUEES, QUE J'AI VERIFIE LE TRAVAIL ET QUE J'EN SUIS SATISFAIT DE LA QUALITE.

CLIENT SIGNATURE: Approved Online On Mar 23, 2004 04:28 PM by Alice Campbell

PLEASE FAX YOUR SIGNED TIMESHEET TO:

Fig. 20

Fig. 21

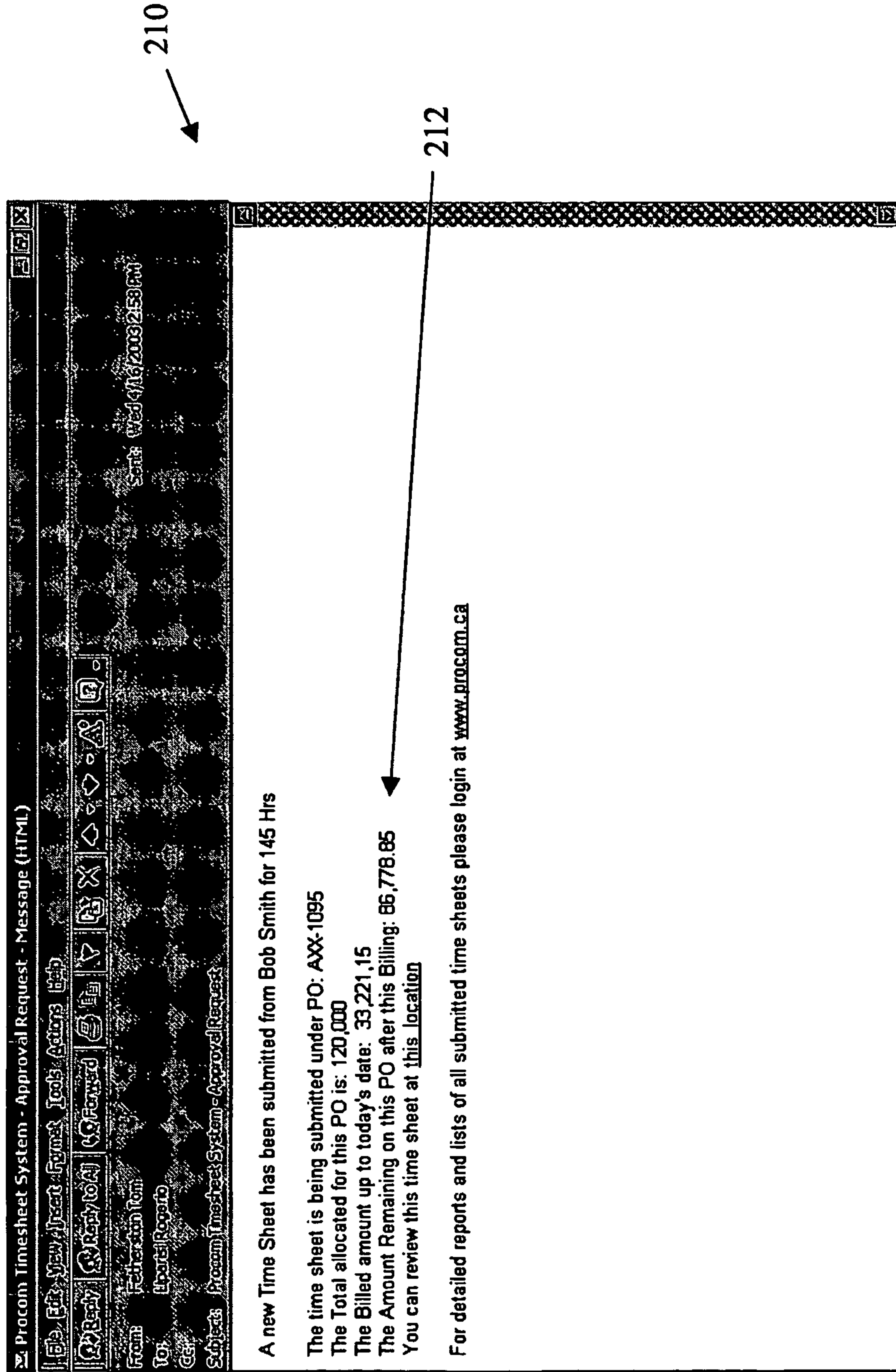


Fig. 22

220 →

The screenshot displays a web-based interface for a Contractor Management System. At the top, there is a navigation bar with the system name and user information. Below this is a menu with options like 'Contract Listing', 'Contract Management', 'Requisition Management', and 'Reports'. The main content area features a table with the following columns: Consultant, Supplier, Manager, Start, End, and Rate. The table contains multiple rows of data, each representing a contract listing. The text in the table is somewhat blurry but appears to include names like 'Brackenshire', 'University of...', and 'Ford and...', along with dates and numerical values.

Contract Listing	Consultant	Supplier	Manager	Start	End	Rate
All Consultants	All Suppliers	All Managers				
View	Brackenshire	Procom	Campbell/Alice	Jan 1 2003	Dec 31 2004	\$ 386,000
View	University of...	Procom	Campbell/Alice	Jan 1 2004	Dec 31 2004	\$ 20,000
View	Ford and J...	Procom	Campbell/Alice	Jan 1 2005	Dec 31 2005	\$ 135,000
View	McCann/Anne	Procom	Campbell/Alice	Jan 1 2005	Dec 31 2005	\$ 13,000
View	McCann/Anne	Procom	Campbell/Alice	Jan 1 2003	Dec 31 2003	\$ 2,000
View	McCann/Anne	Procom	Campbell/Alice	Jan 1 2003	Dec 31 2003	\$ 31,000
View	McCann/Anne	Procom	Campbell/Alice	Jan 1 2003	Dec 31 2003	\$ 420,000
View	McCann/Anne	Procom	Campbell/Alice	Jan 1 2003	Dec 31 2003	\$ 150,000
View	McCann/Anne	Procom	Campbell/Alice	Jan 1 2003	Dec 31 2003	\$ 10,000

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Fig. 23

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Procom Contractor Management System

Timesheet Management | Contract Management | Requisition Management | Reports | My Profile

Logout | [User Icon]

Contract

Client Details: ABC Company Ltd. | Brackenshire, Ellen

Inv. To	Signed	Online	Backup	Manager	Envs.	C. Copy
Campbell/Alice						

Contract Details:

PO#	Rate	Bill Rate	Client Rate	Client Rate
0	Hourly CDN\$	88/	Hourly CDN\$	88/
Supplier:	Procom	PO Number:	sdeasada	
Start Date:	1/1/2003	PO Amount:	0	
End Date:	12/31/2004	Cost Center:		
Pay Cycle:	Twice Monthly	Consolidated Invoice:		

Required Skills

Last Update By: [User Icon]

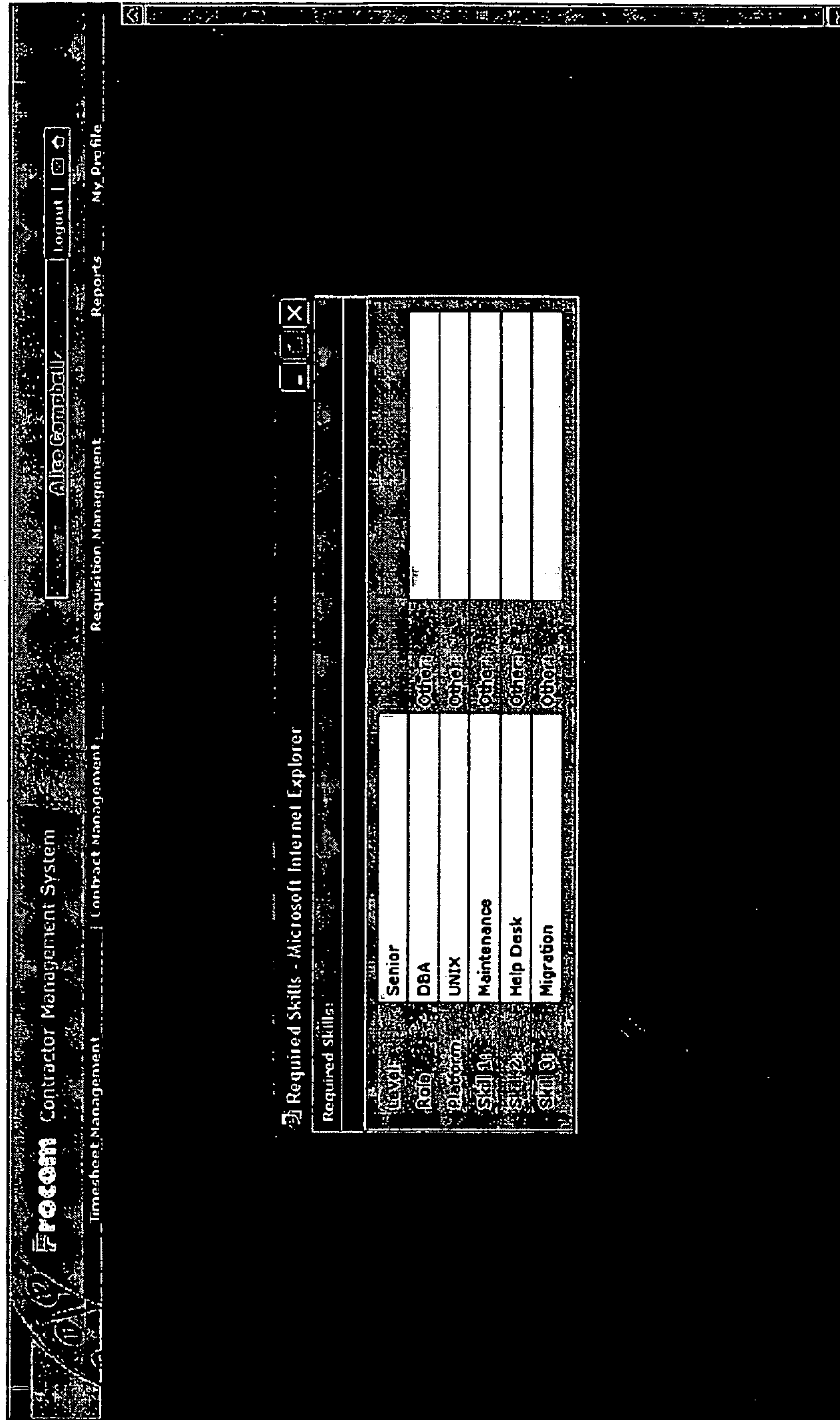
Update Date: 2/11/2008 8:23:53AM

234

232

Fig. 24

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242

Fig. 25

250

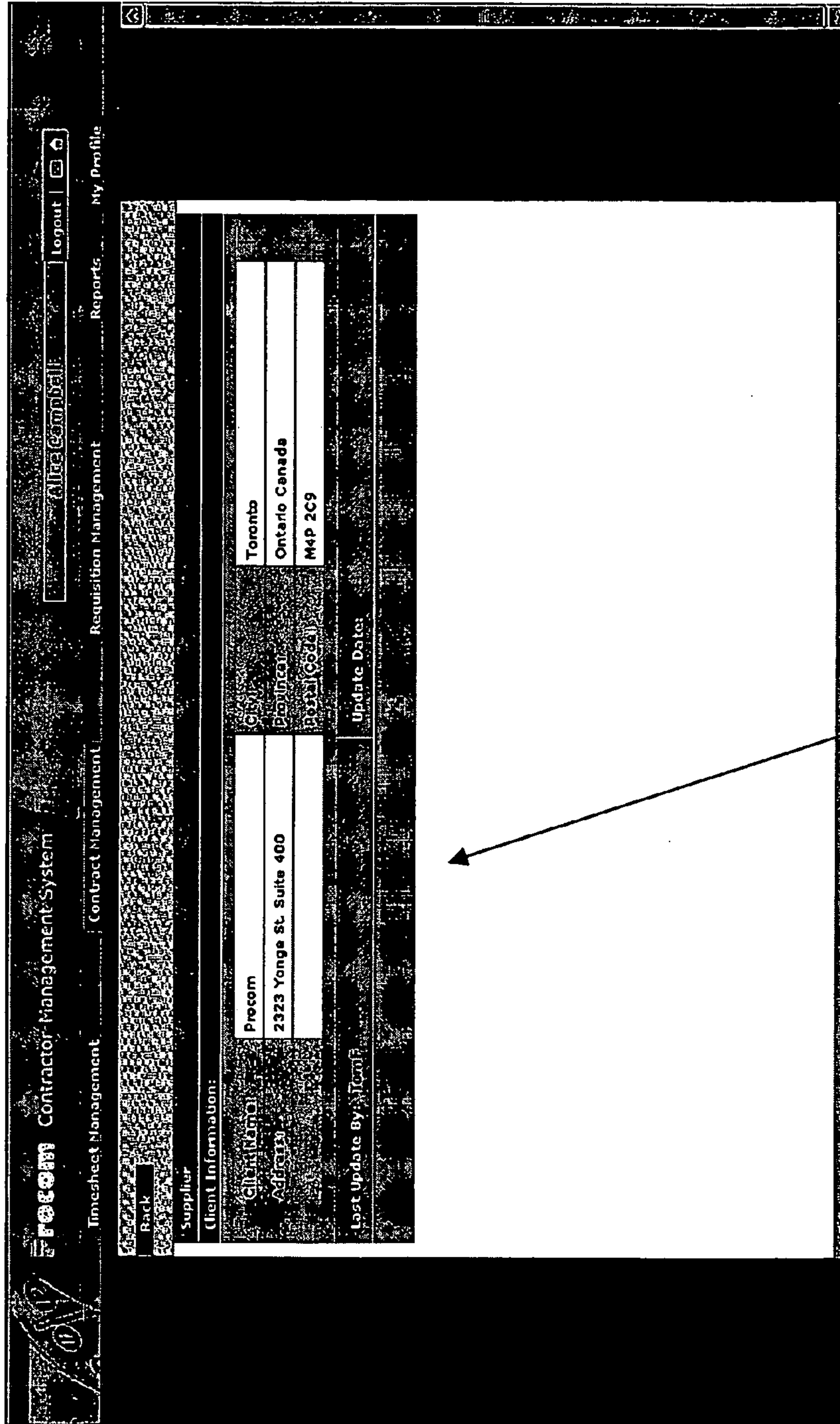
The screenshot displays a web application interface for a 'Contractor Management System'. At the top, there is a navigation bar with the user's name 'Alfa Campbell', a 'Logout' button, and links for 'Reports' and 'My Profile'. Below this, a secondary navigation bar includes 'Timesheet Management', 'Contract Management', 'Requisition Management', and 'Reports'. The main content area features a 'Back' button and a 'Consultant' section for 'Consultant Number: 10173'. The consultant's details are presented in a table with two columns: 'Business Information' and 'Personal Information'. The 'Business Information' column includes fields for 'Business Name', 'Company', 'Address', 'City', 'Province', and 'Business Type'. The 'Personal Information' column includes fields for 'Phone Number', 'Fax Number', 'Email', 'Mailing Address', 'Postal Code', and 'Last Name'. The consultant's name 'Ellen' is visible in the 'Business Name' field. Below the table, there are fields for 'Last Update By: (empty)' and 'Update Date: 12/10/2009 10:47:31'. An arrow labeled '250' points to the top-left corner of the interface, and another arrow labeled '252' points to the right side of the interface.

Business Information	Personal Information
Business Name	Phone Number
Company	Fax Number
Address	Email
City	Mailing Address
Province	Postal Code
Business Type	Last Name

252


Fig. 26

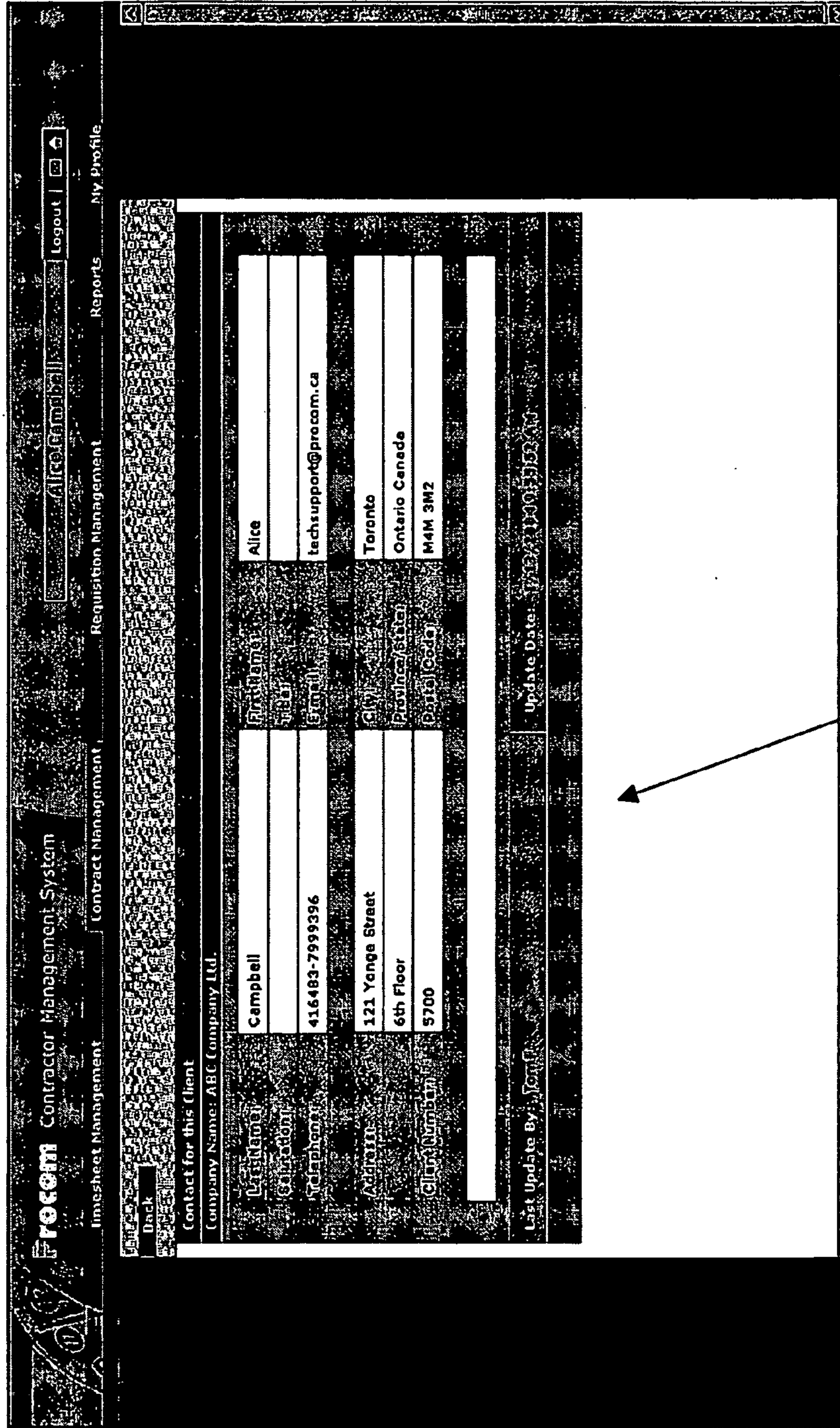
260



262

Fig. 27

270 



The screenshot displays a web application interface for 'Procom Contractor Management System'. At the top, there is a navigation menu with links for 'Timesheet Management', 'Contract Management', 'Requisition Management', 'Reports', and 'My Profile'. A user profile dropdown shows the name 'Alice Campbell' and a 'Logout' button. The main content area is titled 'Contact for this Client' and lists contact information for 'ABC Company Ltd.'. The contact details are organized into two columns: the left column contains 'Campbell', '416483-7999396', '121 Yonge Street', '6th Floor', and '5700'; the right column contains 'Alice', 'techsupport@procom.ca', 'Toronto', 'Ontario Canada', and 'M4M 3M2'. Below the contact information, there is a 'Last Update By: [Name]' and an 'Update Date: 12/27/2013 11:53 AM' field. A large arrow labeled '272' points to the right side of the interface.


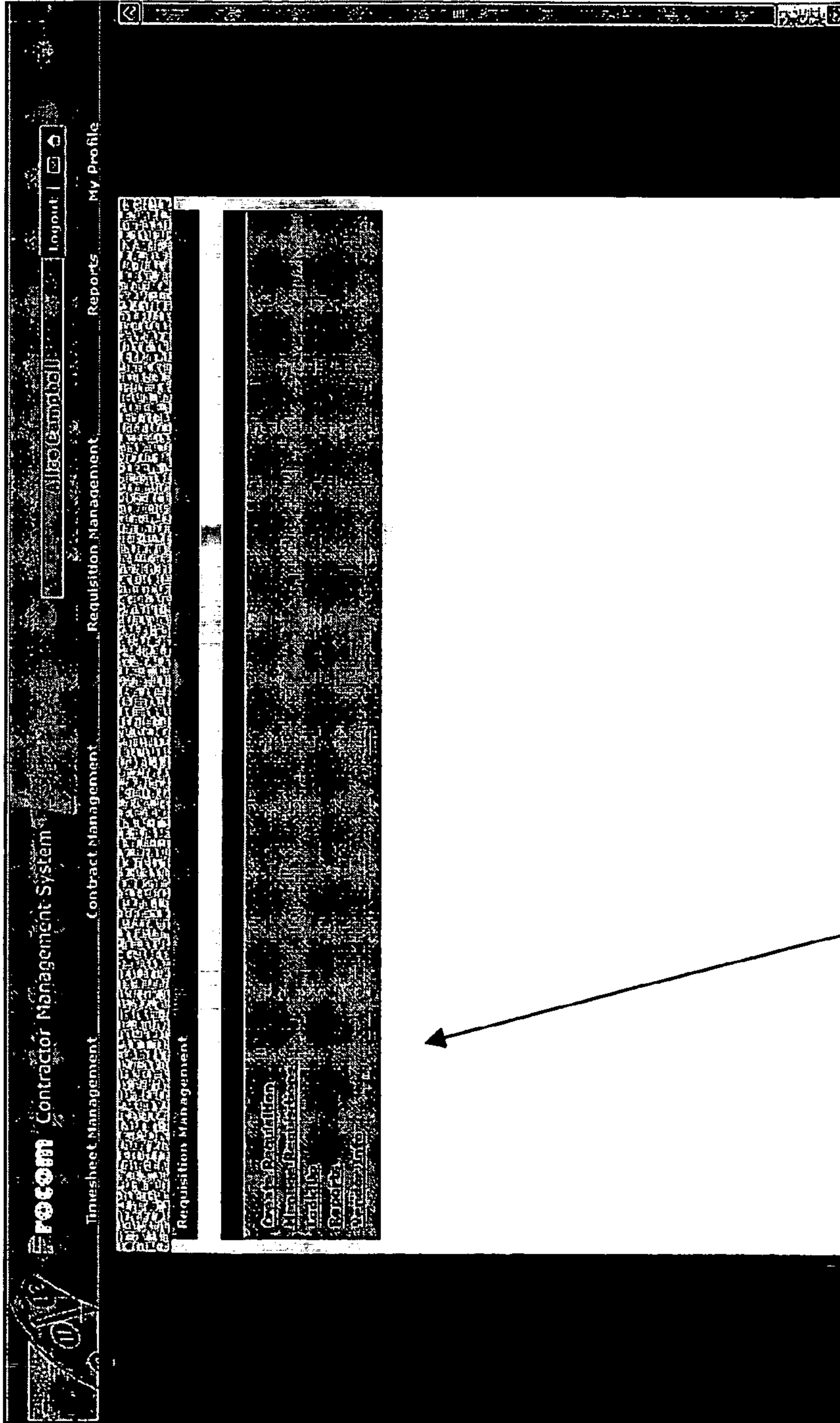
272 

Fig. 28

280



282

Fig. 29

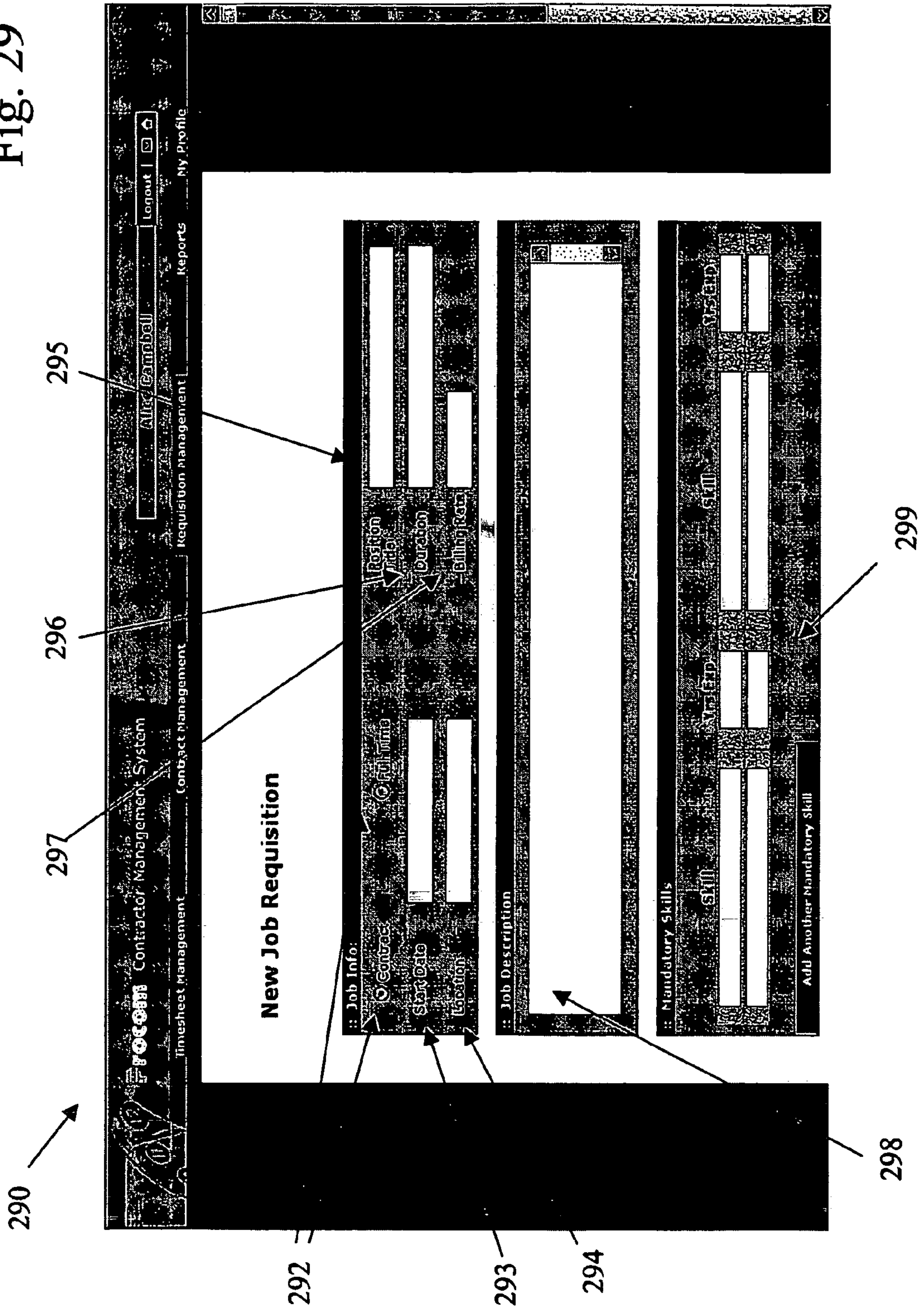
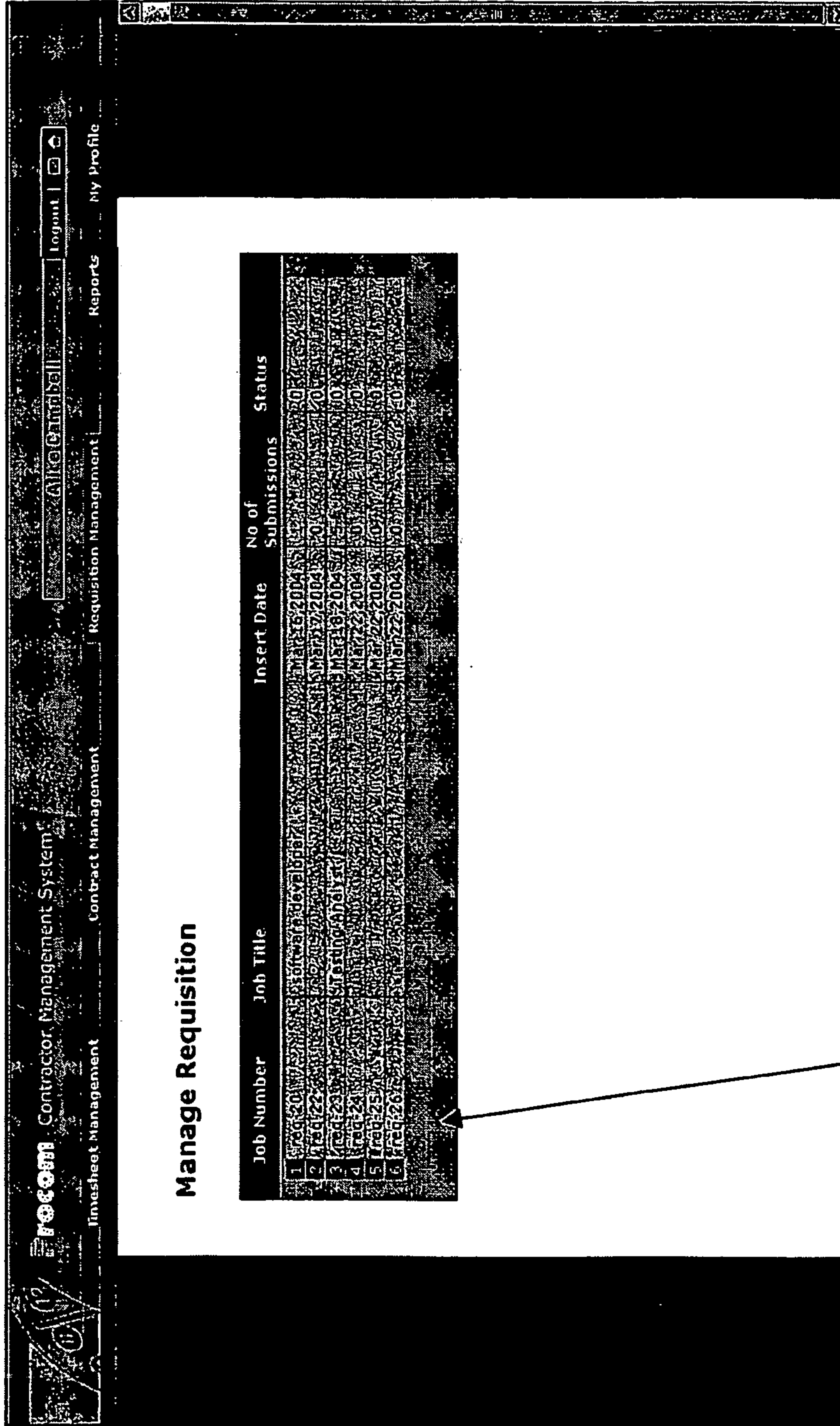



Fig. 30

300



302

Fig. 31

310 

Procom Contractor Management System

Timesheet Management | Contract Management | Requisition Management | Reports | My Profile | Logout

Job Requisition

Job # 20

Status: Open [Change Status](#)

Job Info:

Contract	Full Time	Position Title	software developer
StartDate		Duration	3 month
Location	Toronto	Billing Rate	307/hour

Job Description


job description

Mandatory Skills

Skill	Level	Start	End
C++	5		5
java	4		3
testing	6		

[Add Another Mandatory Skill](#)

Fig. 32

320 

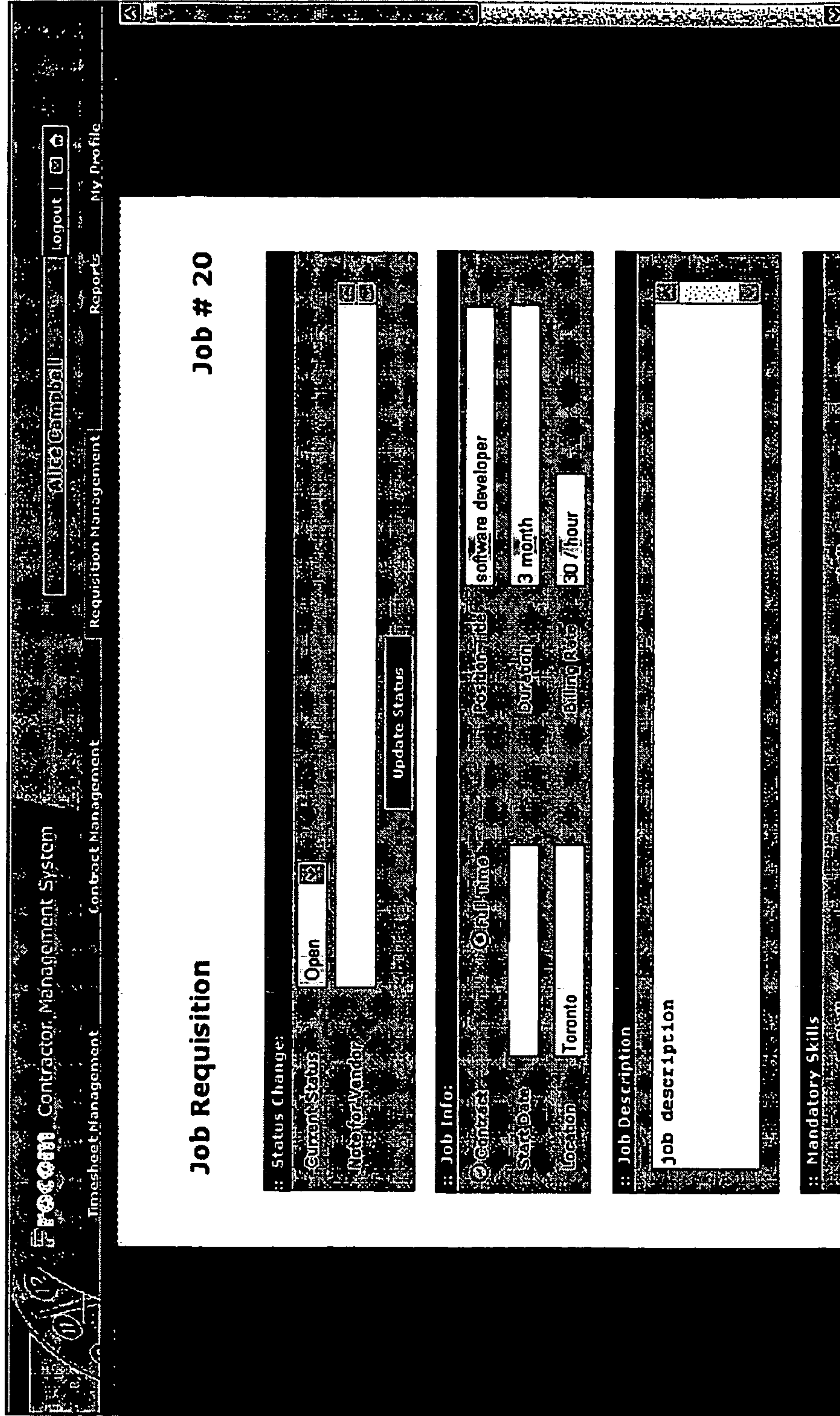


Fig. 33

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Procom Contractor Management System

Timesheet Management | Contract Management | Requisition Management | Reports | My Profile | Logout | Alice Campbell

Look up

Search

Source/Vendor: Procom

Position Title:

Job Number: []

Search

Results

Name	Job Number	Availability	Skills	Date	Job Title	Status	Interview Requested	Source	Rate
mike petre	23	ASAP	c++:net.struts;dox:java:java:test	03/24/2004	Testing Analyst	Interview Requested		Procom	30

Name: mike petre

Job Number: 23

Availability: ASAP

Skills: c++:net.struts;dox:java:java:test

Date: 03/24/2004

Job Title: Testing Analyst

Status: Interview Requested

Source: Procom

Rate: 30

Fig. 34

340




The screenshot displays the Procurement Management System interface. At the top, there are navigation tabs: Timesheet Management, Contract Management, Requisition Management, and My Profile. The user is logged in as Alice Campbell. Below the navigation is a search area with filters for Reporting Periods (March 2004), Job Numbers (All Job Numbers), and Divisions (All Divisions). A 'Generate Report' button is visible. The main content area shows a table with the following data:

Job Number	Division	Average
7		3
3		1
7		1
2		
2		

Below the table, there is a 'Vendor' section with a 'Procurement' dropdown and a table of average values:

Vendor	Procurement	Average
7		2.60
3		0.59
7		0.60
2		

Fig. 35

350 

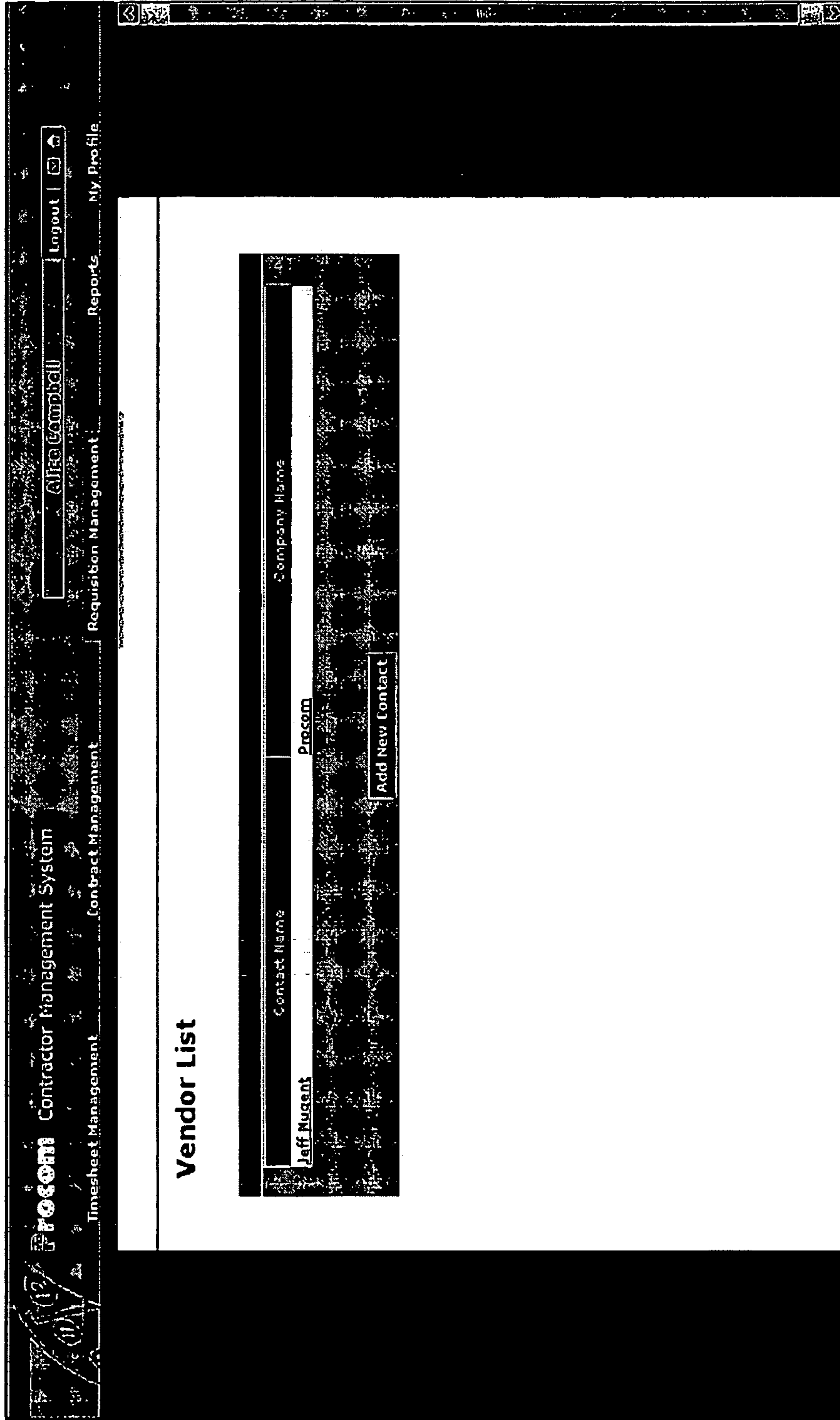


Fig. 36

360

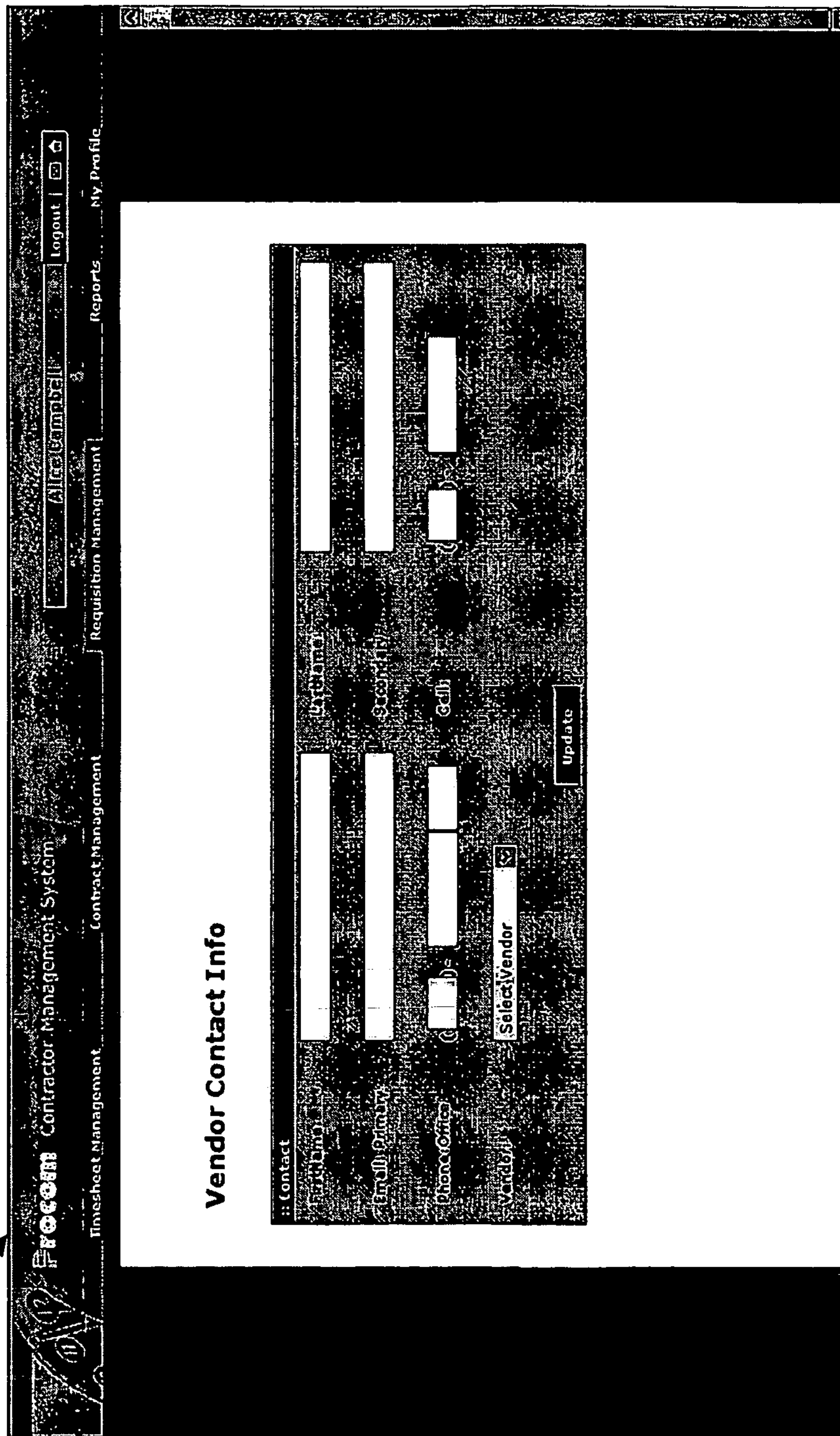
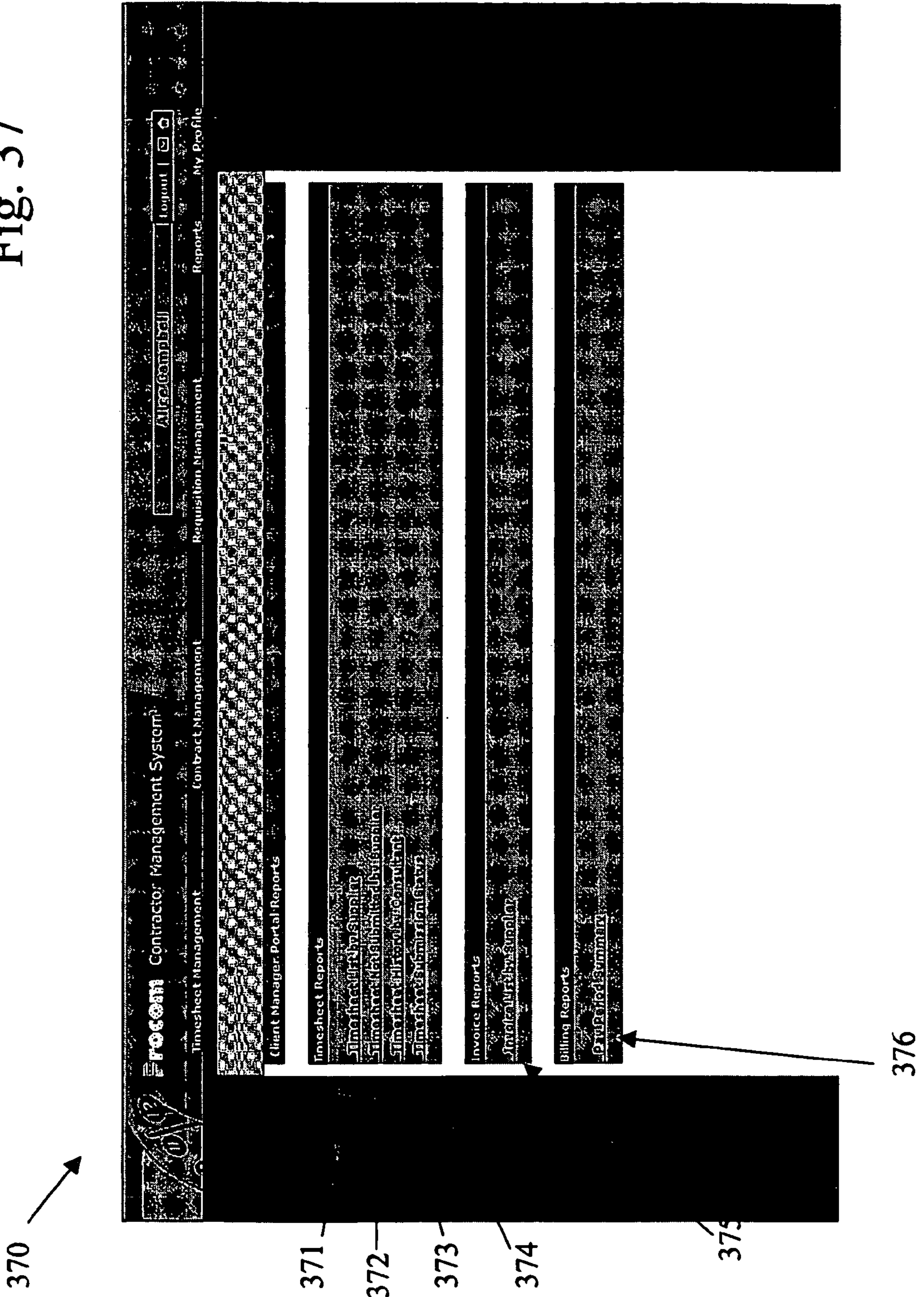
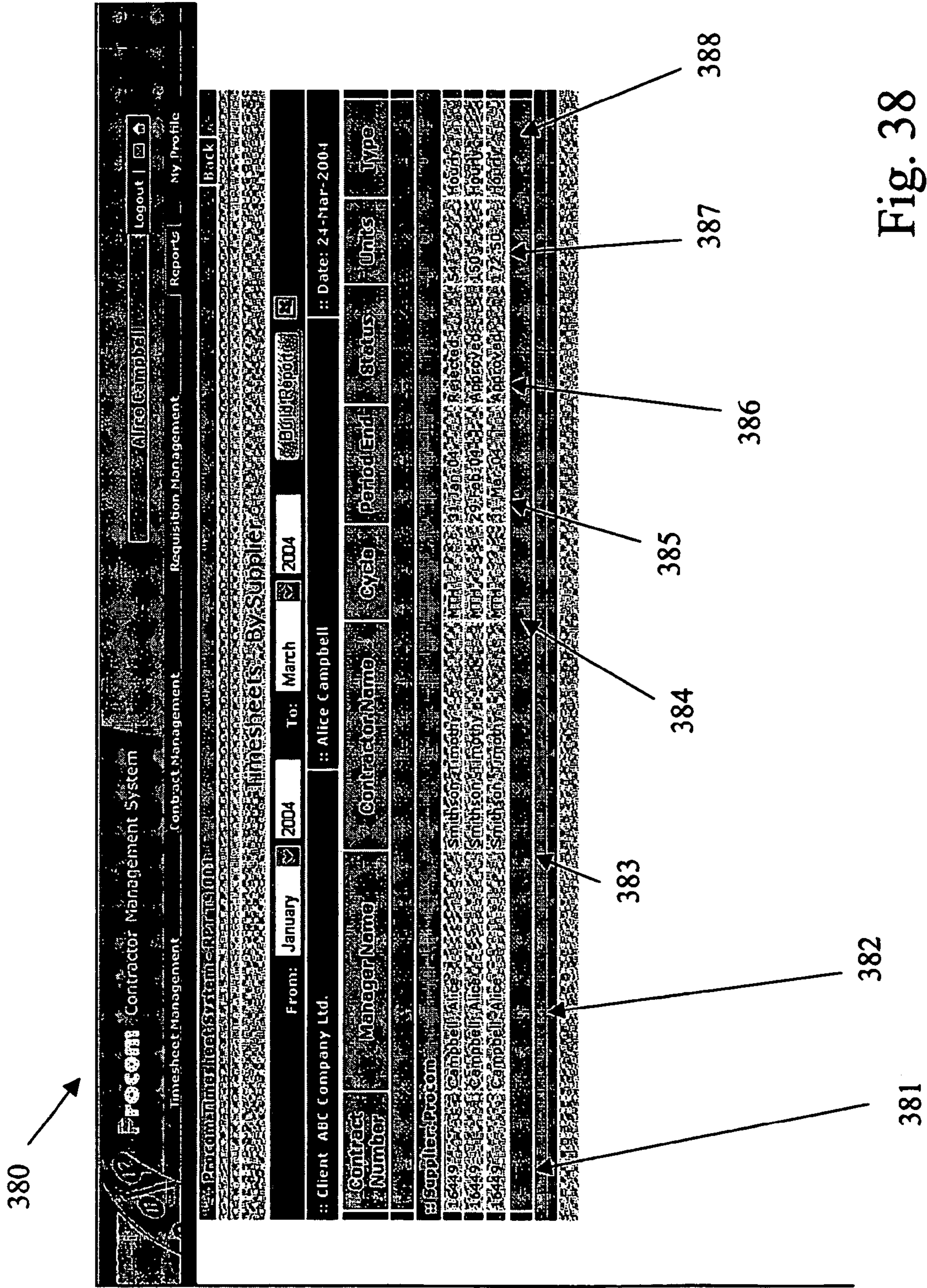


Fig. 37





390 

Procorm Contractor Management System

Imeshheet Management | Contract Management | Requisition Management | Reports | My Profile

Alice Campbell | Logout

Back

Pracom Imeshheet System - RPT191903

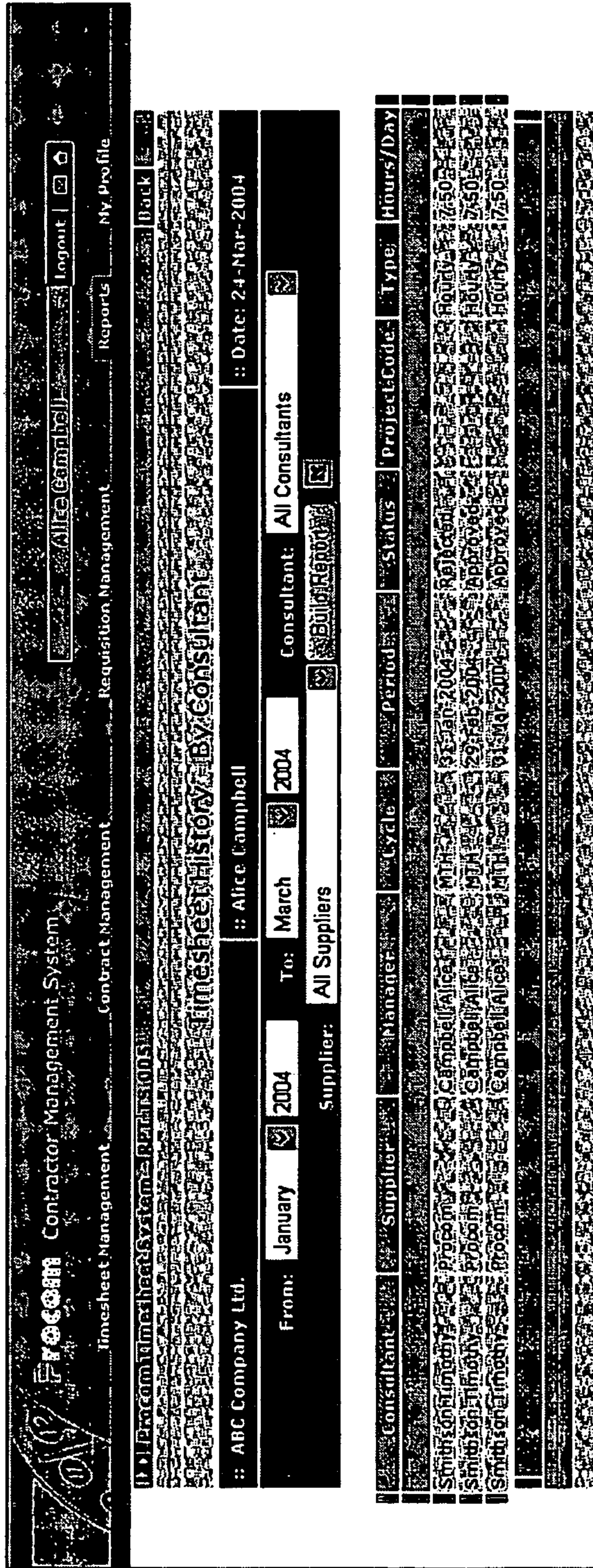
Timesheet Not Submitted By Supplier

Client : ABC Company Ltd. | User: Client Manager | Date: 24-Mar-2004

Contract Number	Manager Name	Contractor Name	Cycle	Period End	Status	Units	Type	Rate
16449	Alice Campbell	Smithson Integrity	91 Dec 2003	91 Dec 2003	Releas	15750	Hourly	50.00
16449	Alice Campbell	Smithson Integrity	91 Jan 2004	91 Jan 2004	Releas	54	Hourly	50.00

Fig. 39

400  Fig. 40



Procom Contractor Management System

Navigation: Alice Campbell | Logout | My Profile | Reports | Requisition Management | Contract Management | Timesheet Management

URL: [http://procom.timesheet-system-PRJ111005](#) | Back

Timesheet History: BY Consultant

Filters:

- Company: ABC Company Ltd.
- Consultant: Alice Campbell
- Date: 24-Mar-2004
- From: January 2004
- To: March 2004
- Consultant: All Consultants
- Supplier: All Suppliers
- Requisition Report

Consultant	Supplier	Manager	Cycle	Period	Status	Project Code	Type	Hours/Day
Smithson Timothy	Procom	Alice Campbell	2004	Jan-2004	Approved	24	Hourly	7:50
Smithson Timothy	Procom	Alice Campbell	2004	Feb-2004	Approved	24	Hourly	7:50
Smithson Timothy	Procom	Alice Campbell	2004	Mar-2004	Approved	24	Hourly	7:50

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Procom Contractor Management System

Timesheet Management | Contract Management | Requisition Management | Reports | My Profile | Logout |

Procom Timesheet System RPTAT9006

Timesheets Submission Status

Date: 31 March 2004 Build Report

:: Alice Campbell :: Date: 24-Mar-2004

Contract Number	Contractor Name	Cycle	Period End	Total Regular	Total Overtime	Grand Total	Status
17022	Procom Hire, Elizabeth	3/1/2004	3/31/2004	17.00	0.00	17.00	Approved
18449	Smithson, Timothy	3/1/2004	3/31/2004	17.00	0.00	17.00	Approved

Fig. 41

420



The screenshot displays the 'Procom Contractor Management System' interface. At the top, there is a navigation menu with links for 'Timesheet Management', 'Contract Management', 'Requisition Management', 'Reports', and 'My Profile'. A user profile dropdown shows 'Alice Campbell' and a 'Logout' button. Below the navigation, a search filter is set to 'Invoice List by Supplier' for the month of 'March 2004'. A 'Bill Report' button is visible. The main content area shows a table with the following data:

Supplier Reference	Issue Date	Manager Name	Contractor Name	Invoice Amount
:: ABC Company Ltd.				
:: Date: 24-Mar-2004				
No data found!				

Fig. 42

430



Procom Contractor Management System
 Invesheet Management | Contract Management | Requisition Management | Reports | My Profile
 Alice Campbell | Logout

Procom Invesheet System (PRIS001) | Billing Summary | Back

From: February 1 2004 To: March 1 2004 | Mandi Reports | Date: 24-Mar-2004

:: Client: ABC Company Ltd. :: Alice Campbell

Reference Number	Contractor Name	From Date	To Date	Regular Hours	Regular Dollars	Overtime Hours	Overtime Dollars	Total
13449	Smithson Invesheet	28 Feb 04	28 Feb 04	150.00	7,500.00	0.00	0.00	7,500.00
total =				150.00	7,500.00	0.00	0.00	7,500.00

Supplier: Procom

Fig. 43

Fig. 44

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Timesheet Management Contract Management Requisition Management Reports My Profile

Procom Contractor Management System Alice Campbell Logout

Profile View / Change your personal information

:: Name

First Name: Last Name:

:: Mailing Address

Address: Postal/Zip:

City: Province/State:

Language Preference: English

:: Contact

Email Address: Secondary:

Phone: Cell: Fax:

Your login name is unique in order to provide additional security. Thus it might not be possible to change it to the one you choose, in which case you will be asked to try again

:: Login

User ID:

Fig. 45

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PROCOM Contractor Management System

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Approved | Time Period: Mar 1, 2004 to Mar 31, 2004 | Timothy Smithson


Timesheet for: ABC Company Ltd., Invoice to Alice Campbell

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
Week # 10		Mar 8	Mar 9	Mar 10	Mar 11	Mar 12	Mar 13	37.50
Regular Hours		7.50	7.50	7.50	7.50	7.50	7.50	37.50
Week # 11		Mar 15	Mar 16	Mar 17	Mar 18	Mar 19	Mar 20	37.50
Regular Hours		7.50	7.50	7.50	7.50	7.50	7.50	37.50
Week # 12		Mar 22	Mar 23	Mar 24	Mar 25	Mar 26	Mar 27	37.50
Regular Hours		7.50	7.50	7.50	7.50	7.50	7.50	37.50
Week # 13		Mar 29	Mar 30	Mar 31				22.50
Regular Hours		7.50	7.50	7.50				22.50
Week # 14								0.00
Regular Hours								0.00
								Total 0.00

Print/Preview

If you would like to add a comment for Procom accounting please enter it here:

Fig. 46

460 

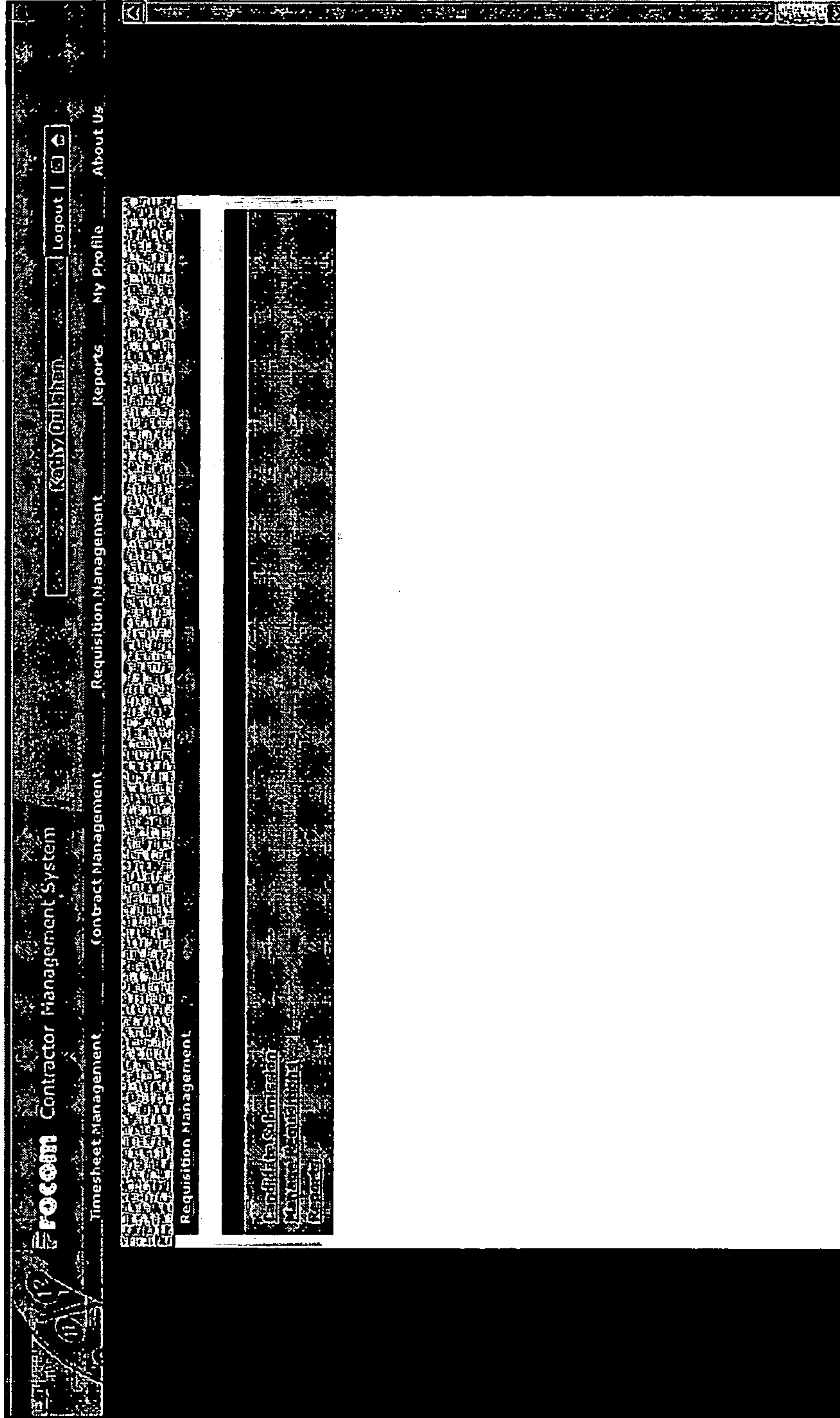
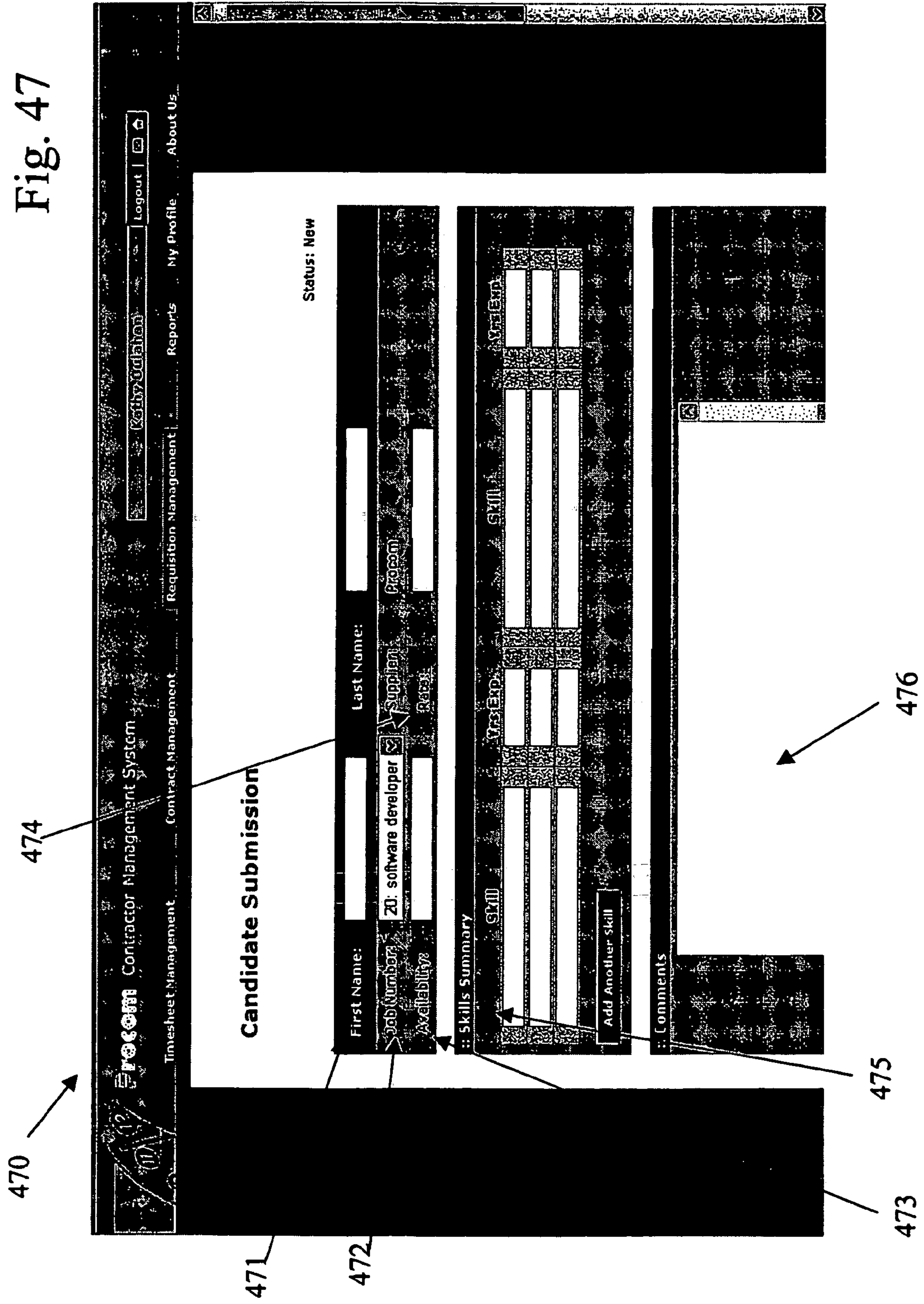


Fig. 47



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Procom Contractor Management System

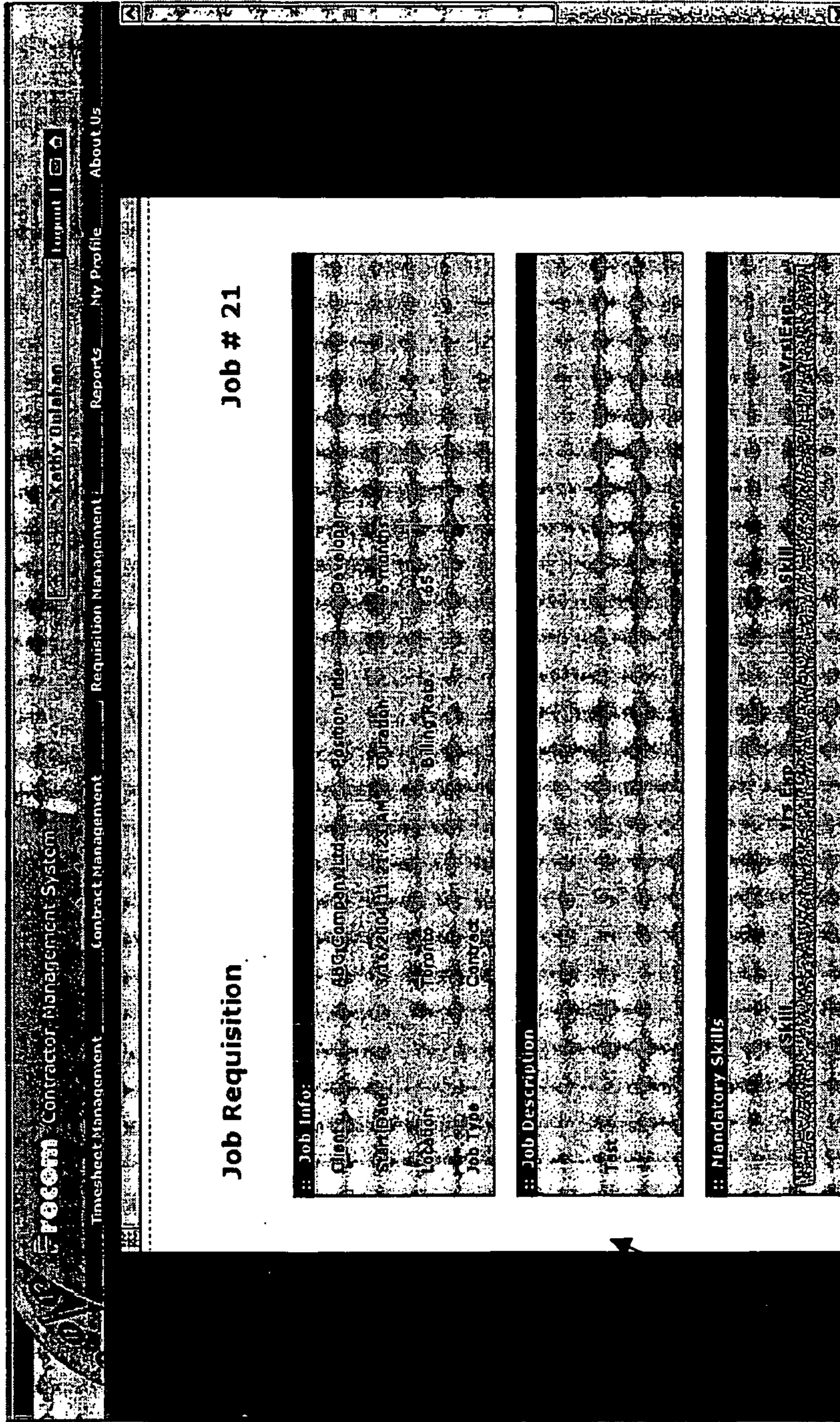
Timesheet Management Contract Management Requisition Management Reports My Profile Logout

Manage Requisition

Req Number	Position Title	Client	Date Submitted	My Submissions	Total Submissions	Status
1
2

Fig. 48

490



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Fig. 49

500

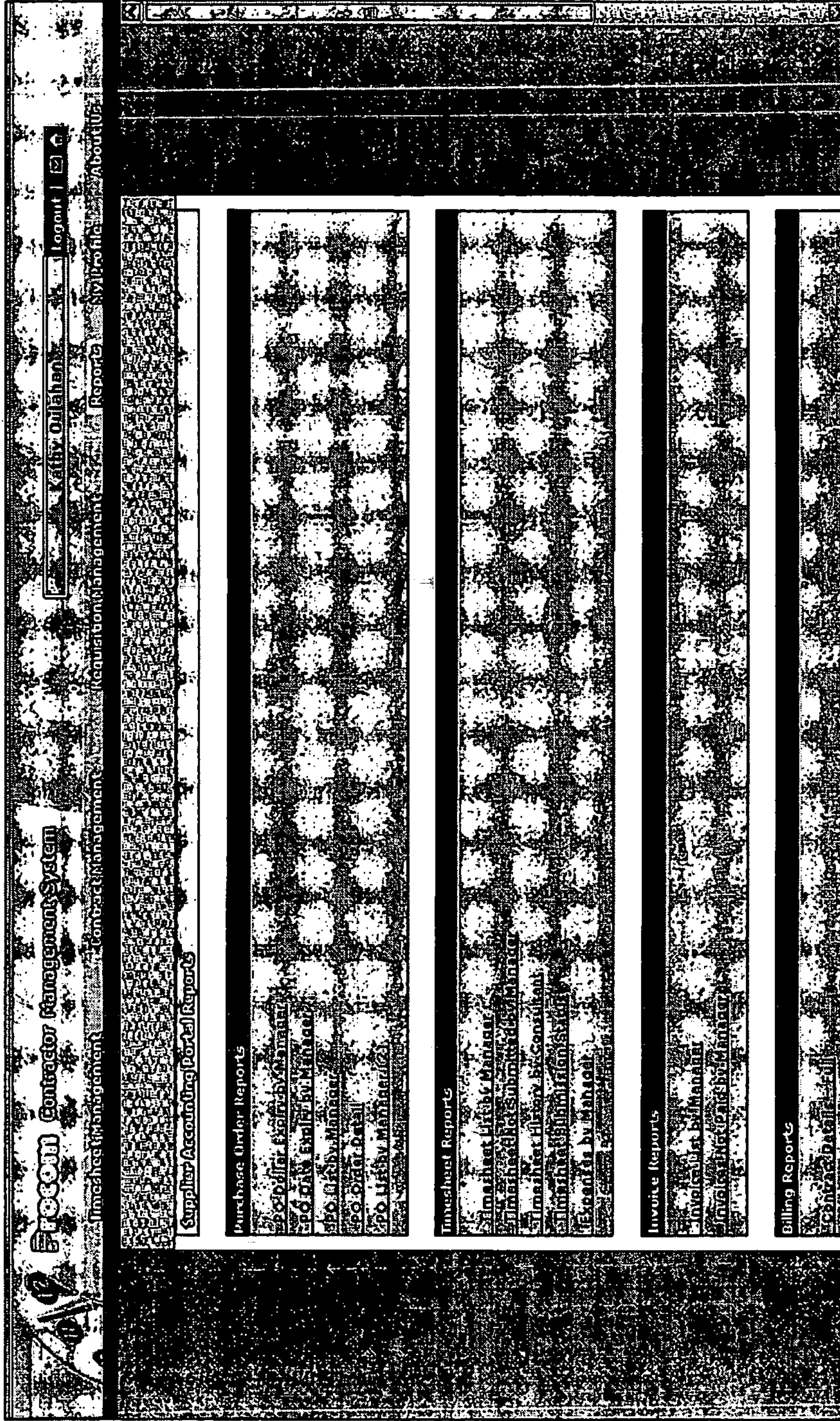


Fig. 50

Fig. 51

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Procom Contractor Management System

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Contract Management | Requisition Management | Reports

Supplier: Procom :: User: Supplier Accounting :: Date: 25-Mar-2004

Client Name Contractor Name Rate Dollars Approved Dollars Remaining

PO Number	Client Name	Contractor Name	Rate	Dollars Approved	Dollars Remaining
1	Imperial Oil Limited	John O'Kane	0.00	0.00	10,336.20
2	Imperial Oil Limited	Nicole Johnson	0.00	0.00	1,126.32
3	Imperial Oil Limited	Kesam Brown	0.00	0.00	3,717.07
4	Imperial Oil Limited	Dopazo Mark	2.00	0.00	2,562.36
5	Imperial Oil Limited	Paulaiah	55.00	0.00	4,222.03
6	Imperial Oil Limited	London Kandy	53.00	0.00	3,740.24
7	Imperial Oil Limited	Dollimore Grant	40.00	0.00	1,493.50
8	Imperial Oil Limited	Aramouni Naiva	91.00	0.00	1,559.00
9	Imperial Oil Limited	Cliff Michael	55.00	0.00	7,627.43
10	Imperial Oil Limited	Raymond Jacques	60.00	0.00	1,530.50
11	Imperial Oil Limited	Babyche James	57.00	0.00	1,850.68
12	Imperial Oil Limited	Knob Jaff	56.00	0.00	3,969.61
13	Imperial Oil Limited	Joseph Bruce	55.00	0.00	7,791.67
14	Imperial Oil Limited	Bangy Alan	62.00	0.00	1,030.55
15	Imperial Oil Limited	Cooper Kim	60.00	0.00	7,397.62
16	Imperial Oil Limited	Rafael Antonio	65.00	0.00	4,658.13
17	Imperial Oil Limited	Eunghyeon	75.00	0.00	1,586.25
18	Imperial Oil Limited	SSoufiane	75.00	0.00	6,280.72
19	Imperial Oil Limited	Achegyan	95.00	0.00	1,258.86
20	Imperial Oil Limited	John Kathy	100.00	0.00	1,415.00
21	Imperial Oil Limited	Chaiton	70.00	0.00	1,691.65

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Fig. 52

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Procom System RPT00002

Purchase Order Date Expiry By Manager

Supplier: Procom

User: Supplier Accounting

Date: 25-Mar-2004

PO Number	Client Name	Contractor Name	Rate	Dollars Approved	Dollars Remaining	End Date
Manager: Ann Herr/Bonnie Ly Attn:						
USG 23781	Imperial Oil Limited	Robin Savin	9500	167,268.82	167,268.82	30 APR 2004
USG 23781	Imperial Oil Limited	Seamough Warren	7300	140,160.00	140,160.00	30 APR 2004
Manager: Ann Herr/Bonnie Ly Attn:						
USG 23781	Imperial Oil Limited	Chapman Elizabeth	3000	129,282.59	129,282.59	21 APR 2004
USG 23781	Imperial Oil Limited	Patricia	9200	117,947.94	117,947.94	30 APR 2004
USG 23781	Imperial Oil Limited	Jim Matis	30500	54,950.72	54,950.72	30 APR 2004
USG 23781	Imperial Oil Limited	Lee Cathy	5475	33,511.31	33,511.31	30 APR 2004
Manager: Arbutnot (Gambin) Robin						
GN00390000027	MetaSolv Software Canada Inc	Nardelli Anthony	5700	55,575.00	55,575.00	02 APR 2004
Manager: Audurat, Andrew						
USG 23781	Bank of Montreal	Overland	13300	78,552.97	78,552.97	30 APR 2004
Manager: Beckershoff, Michelle						
USG 23781	Canadian Imperial Bank of Commerce	Campbell Philmor	4000	30,907.00	30,907.00	30 APR 2004
Manager: Berger, Michèle						
USG 23781	Royal Bank Investments	Howard Peter	6400	59,636.40	59,636.40	30 APR 2004
Manager: Betts, Bob						
USG 23781	Canadian Imperial Bank of Commerce	Kotler Elna	4000	32,552.20	32,552.20	30 APR 2004

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Fig. 53

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Procom Timesheet System - RTRP0006

Purchase Order List By Manager

Supplier: Procom | User: Supplier Accounting | Date: 25-Mar-2004

PO Number	Client Name	Contractor Name	Dollars Approved	Dollars Remaining	Start Date	End Date
# Manager						
161500995	Misc (Procom)	Slay's Charlem	\$6,600,000	\$6,600,000	21-Jan-2003	02-May-2003
# Manager: Ann Marr/Donnally Attn						
	Imperial Oil Limited	Atanount Nam	0.00	0.00	02-Sep-2003	30-Jun-2004
	Imperial Oil Limited	Baby Phama	0.00	0.00	17-Mar-2002	31-Mar-2003
	Imperial Oil Limited	Boley Alan	0.00	0.00	01-Feb-2002	31-Mar-2003
	Imperial Oil Limited	Bindo Randy	0.00	0.00	01-Apr-2002	31-May-2003
	Imperial Oil Limited	Bullhead	0.00	0.00	01-Feb-2002	31-Mar-2003
	Imperial Oil Limited	Chen Slayton	0.00	0.00	01-Feb-2002	30-Jun-2003
	Imperial Oil Limited	Chappin	0.00	0.00	01-Jun-2006	30-Jun-2006
	Imperial Oil Limited	Chellin Michael	0.00	0.00	01-Apr-2003	30-Mar-2005
	Imperial Oil Limited	Diobert Mark	0.00	0.00	01-Feb-2002	30-Jun-2003
	Imperial Oil Limited	Fung Wendy	0.00	0.00	01-Feb-2002	30-Jun-2004
	Imperial Oil Limited	Johnson Kathy	0.00	0.00	01-Feb-2002	31-May-2004
	Imperial Oil Limited	Hollmore Grant	0.00	0.00	01-Feb-2002	30-Apr-2003
	Imperial Oil Limited	Kassam Rizwan	0.00	0.00	08-Apr-2002	31-Mar-2003
	Imperial Oil Limited	Knee John	0.00	0.00	01-Oct-2002	31-Mar-2003
	Imperial Oil Limited	LeSavabu	0.00	0.00	01-Feb-2002	31-Dec-2004
	Imperial Oil Limited	Marie Kerry	0.00	0.00	01-Apr-2002	30-Mar-2004
	Imperial Oil Limited	McJesulion	0.00	0.00	18-Apr-2003	18-May-2004
	Imperial Oil Limited	Ratino Gaylon	0.00	0.00	14-Oct-2003	15-Apr-2004

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Procom Timesheet System - RPT00007

Purchase Order Detail

First, please select PO Number and click load. 0013292

:: Purchase Order: 0013292 :: User: Supplier Accounting :: Date: 25-Mar-2004

:: Value: :: Used: :: Remaining:

Contract #	Start Date	End Date	Consultant Name	Client Name	Manager Name
017Jan2004	01/Jan/2004	31/Oct/2004	Bel Weir	Bel Weir	Elaine Pa...

Fig. 54

Fig. 55

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Supplier: Procom | User: Supplier Accounting | Date: 25-Mar-2004

From: February 2004 | To: March 2004 | [Build Report](#)

Contract Number	Client Name	Contractor Name	Cycle	Period End	Status	Units	Type	Rate
15328	Imperial Oil Limited	Tennay Bruce	MTH	29-Feb-2004	Hard Copy	1617	Hourly	55.00
15456	Imperial Oil Limited	Griffin Michael	MTH	29-Feb-2004	Hard Copy	295	Hourly	55.00
15670	Imperial Oil Limited	Kafarah Kara	MTH	29-Feb-2004	Hard Copy	159	Hourly	65.00
16687	Imperial Oil Limited	Nicholson Ian	MTH	29-Feb-2004	Hard Copy	80	Hourly	50.00
16687	Imperial Oil Limited	Nicholson Ian	MTH	29-Feb-2004	Hard Copy	80	Hourly	50.00
16687	Imperial Oil Limited	Nicholson Ian	MTH	29-Feb-2004	Hard Copy	80	Hourly	50.00
16687	Imperial Oil Limited	Nicholson Ian	MTH	29-Feb-2004	Hard Copy	80	Hourly	50.00
16869	Imperial Oil Limited	Arafovi Neve	MTH	29-Feb-2004	Hard Copy	152	Hourly	85.00
17261	Imperial Oil Limited	Kaplan Gavriel	MTH	29-Feb-2004	Hard Copy	167	Hourly	95.00
17361	Imperial Oil Limited	Bacchus Harold	MTH	29-Feb-2004	Hard Copy	152	Hourly	70.00
17834	Imperial Oil Limited	Baines Grant	MTH	29-Feb-2004	Hard Copy	1617	Hourly	60.00
17887	Imperial Oil Limited	Shihaman Randy	MTH	29-Feb-2004	Hard Copy	1077	Hourly	40.00
17983	Imperial Oil Limited	Hobson John	MTH	29-Feb-2004	Hard Copy	1077	Hourly	50.00
17983	Imperial Oil Limited	Hobson John	MTH	29-Feb-2004	Hard Copy	1077	Hourly	50.00
17983	Imperial Oil Limited	Hobson John	MTH	29-Feb-2004	Hard Copy	1077	Hourly	50.00
17983	Imperial Oil Limited	Hobson John	MTH	29-Feb-2004	Hard Copy	1077	Hourly	50.00
17983	Imperial Oil Limited	Hobson John	MTH	29-Feb-2004	Hard Copy	1077	Hourly	50.00
18093	Imperial Oil Limited	Hobson John	MTH	29-Feb-2004	Hard Copy	1077	Hourly	50.00
18192	Imperial Oil Limited	Shendon Pat	MTH	29-Feb-2004	Hard Copy	152	Hourly	175.00
18636	Imperial Oil Limited	Pinsent Wayne	MTH	01-Mar-2004	Im Program	82	Hourly	15.00

Manager: **Branch Strategic Procurement**

15669 MBS Shared Services Bureau Appuhatra, Nobeir
 16687 Accounts Database 16687 NHR

Fig. 56

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Procom Timesheet System - REPORTS

Time Sheets Not Submitted by Manager

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Supplier: Procom | User: Supplier Accounting | Date: 25-Mar-2004

Contract Number	Client Name	Contractor Name	Cycle	Period End	Status	Units	Type	Rate
Manager: Ann Harr/Bonnie Ly Attm								
17950	Imperial Oil Limited	Bruce Kimberly	IMPERIAL	31 Oct 2003	In Progress	96	Hourly	25.00
17953	Imperial Oil Limited	Bob Johnson	IMPERIAL	31 Dec 2003	In Progress	92	Hourly	20.00
18192	Imperial Oil Limited	Ken Shedd	IMPERIAL	31 Jan 2004	In Progress	72	Hourly	75.00
18636	Imperial Oil Limited	Pinsent Wayne	IMPERIAL	31 Mar 2004	In Progress	112	Hourly	45.00
Manager: Darlene Hunter/Danilo Ly Attm								
17000	Imperial Oil Limited	Atallah Michael	IMPERIAL	09 Sep 2002	In Progress	302	Hourly	70.00
14551	Imperial Oil Limited	Tam Patrick	IMPERIAL	07 Sep 2002	In Progress	140	Hourly	42.00
Manager / Payable Accounts								
2576	CSG/O/Norhal	Willis John	ESTERIA	29 Jan 2001	In Progress	200	Hourly	58.00
2106	CSG/O/Norhal	Glynn Joe	ESTERIA	27 Jul 2001	In Progress	152	Hourly	58.00
2106	CSG/O/Norhal	Glynn Joe	ESTERIA	01 Aug 2001	In Progress	168	Hourly	58.00
2106	CSG/O/Norhal	Glynn Joe	ESTERIA	28 Sep 2001	In Progress	152	Hourly	58.00
2106	CSG/O/Norhal	Glynn Joe	ESTERIA	26 Oct 2001	In Progress	160	Hourly	58.00
2106	CSG/O/Norhal	Glynn Joe	ESTERIA	09 Nov 2001	In Progress	192	Hourly	58.00
2643	CSG/O/Norhal	Willis John	ESTERIA	28 Sep 2001	In Progress	152	Hourly	58.00
2643	CSG/O/Norhal	Willis John	ESTERIA	30 Nov 2001	In Progress	192	Hourly	58.00
2617	Computer Science Corporation	Rodrick Pierre	ESTERIA	30 Nov 2001	In Progress	252	Hourly	78.00
2186	Computer Science Corporation	Navarro Ron	UNKNOWN	31 Aug 2001	In Progress	10	Hourly	0.00

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Timesheets: Submission Status

Date: 31 March 2004 [Edit Report](#) [Back](#)

:: Kathy Oulahan
 :: Date: 25-Mar-2004

Contract Number	Contractor Name	Cycle	Period End	Total Regular	Total Overtime	Grand Total	Status
16605	Andrews, Keith	03/17/2004	03/17/2004				N/A
16454	Lord andis, Helen	03/17/2004	03/24/2004				N/A
17022	Blarack, Chirac, Elizabeth	03/17/2004	03/17/2004				N/A
16449	Smithson, Timothy	03/17/2004	03/17/2004	172.50	0.00	172.50	Approved

Fig. 57

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Procom Timesheet System - R21 Inn 001

87 Gaven Jim | Upload

First, please select a contract and click load.

Client	Royal Sun Alliance Insurance Company of Canada	Supplier	Professional Computer Consultants Group
Sales Rep	Deques Kevin	Supplier No	PEEG0108
Manager	Fischl John	Contract	
Billing	10 Wellington Street East Toronto, Ontario, Canada M5E 1B5	Start Date	20-Apr-1998
Contractor	2591 Woodbine Oakville, Ontario, Canada L6T 4P8	End Date	30-Jun-2003
		PO	
		Units	176
		Billed	19-Dec-2002
		PO Balance	

Expenses Total

Last Timesheet:

Fig. 58

590



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Procom Timesheet System - R22Jan002

Contract Details


07 Gaven Jim

First, please select a contract and click load.

Date: 25-Mar-2004

Client	Royal Sun Alliance Insurance Company of Canada	Supplier	Professional Computer Consultants Group
Manager	Richard	Sales Rep	Richard
Procom Inv	58296	Supplier No	1000109
Inv Due	31 Dec 2002	PO #	
Accrued	42665.00	Balance	176985.00
Timesheet	8733	Received	197552.00

Fig. 59

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Procom Timesheet System (PP11111005) [Contract Details](#) [Back](#)


87 Gaven Jim [Logout](#)

First, please select a contract and click load.

Client	Royal Sun Alliance Insurance Company of Canada	Supplier	Professional Computer Consultants Group
Procom Inv	59233	Inv Due	81 Dec 2002
Manager	Flechi John 10 Wellington Street East Toronto Ontario Canada M5E 1B5	Supplier No	PCCG0103 503-232-2296 Toronto, Ontario Canada M9P 2C9
Consultant	Gaven Jim 259 Wedsda 504ville Ontario Canada G5Z 1P8	Work Location	10000 ON Canada
		GST Number	8005878

Fig. 60

Fig. 61

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Billing Summary

From: February 1 2004 To: March 1 2004 Build Report

Supplier: Procom Date: 25-Mar-2004

Reference Number	Contractor Name	From Date	To Date	Regular Hours	Regular Dollars	Overtime Hours	Overtime Dollars	Total
:: Client: ABC Company Ltd.								
16439	Smithson Jimeth	01-Feb-04	29-Feb-04	150	27500.00	0	0.00	27500.00
:: Client: ADP Canada Inc.								
14102	Paul-Pue Man	26-Jan-04	08-Feb-04	75	14200.00	0	0.00	14200.00
14182	Paul-Pue Man	09-Feb-04	22-Feb-04	83	15120.00	0	0.00	15120.00
:: Client: AECL								
13144	Shimji Mehboob	01-Feb-04	29-Feb-04	150	27500.00	0	0.00	27500.00
:: Client: AGRICORP - CAC								
16274	Voinea Alex	01-Feb-04	29-Feb-04	150	27500.00	0	0.00	27500.00
:: Client: Aeroplant								
18691	Robcog Ana	10-Feb-04	29-Feb-04	105	19965.00	0	0.00	19965.00
18459	Robcog Caroline	05-Feb-04	29-Feb-04	125	23125.00	0	0.00	23125.00
:: Client: Apex Canada Inc.								
17823	Keim Jeff	01-Feb-04	29-Feb-04	160	30200.00	0	0.00	30200.00
18096	Narka Nagepura (kumar)	01-Feb-04	29-Feb-04	150	28500.00	0	0.00	28500.00
15855	White Nancy	31-Jan-04	27-Feb-04	150	28500.00	0	0.00	28500.00
:: Client: Avaya Canada Corporation								
18804	Stet Homes Ralph	01-Feb-04	29-Feb-04	150	28500.00	0	0.00	28500.00

Fig. 62

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Procom TimesheetSystem-PRPFIN005

Contractor Details List By Salesperson

Supplier : Procom :: User: Supplier Accounting Date: 25-Mar-2004

Client	Contractor	Bill	Pay	Cost	Margin	Start Date	End Date
Salesperson: Grossard Marie							
Aeroplan	Roberte Aniel	73,931	38,500	15,931	20,9	30-Feb-2004	02-Apr-2004
Aeroplan	Roche Caroline	74,663	36,000	8,563	11,6	05-Feb-2004	02-Jun-2004
Centre Hospitalier Pierre Le Gardeur	Carbonneau Patricia	31,900	16,460	15,440	46,3	01-Jan-2004	30-Apr-2004
Centre Hospitalier Pierre Le Gardeur	Bevan Sylvain	95,000	75,000	20,000	21,1	11-Apr-2003	12-Apr-2003
Centre Hospitalier Pierre Le Gardeur	Francois Yves Germain	84,700	57,500	27,700	32,7	01-Jan-2004	06-Jun-2004
Centre Hospitalier Pierre Le Gardeur	Pulham Larry	140,700	100,000	40,700	28,9	20-Jan-2003	23-Jan-2005
Centre Hospitalier Pierre Le Gardeur	Lefebvre Eric	16,300	20,000	15,970	10,4	01-Jan-2004	28-May-2004
Centre Hospitalier Pierre Le Gardeur	Mailoux Andre	35,200	19,250	15,970	45,3	01-Jan-2004	01-May-2004
Centre Hospitalier Pierre Le Gardeur	Nyrcandin Nicole	36,300	29,000	17,400	47,9	01-Jan-2004	01-May-2004
Centre Hospitalier Pierre Le Gardeur	Papa Martin	39,600	23,000	16,520	41,7	01-Jan-2004	30-Apr-2004
Centre Hospitalier Pierre Le Gardeur	Plante Guy	7,500	27,000	30,500	51,3	23-May-2003	23-May-2004
Centre Hospitalier Pierre Le Gardeur	Poulin Guy	10,700	23,620	17,060	42,3	01-Jun-2004	28-May-2004
Centre Hospitalier Pierre Le Gardeur	Turcotte Sylvain	36,300	28,510	16,520	50,4	01-Jan-2004	30-Apr-2004

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Fig. 63

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PRACOM\machot\svchme\PRAC006

List of Active Contractors

:: Supplier: Procom :: User: Supplier Accounting :: Date: 25-Mar-2004

Contract Number	Contractor Name	Contact	Start Date	End Date
5088	004728 CSN	Alvin Garcia	01-Feb-2004	04-Feb-2005
10142	007027 CSN	Marion Kelly	01-Oct-2002	30-Jun-2004
16243	314967 CSE	Pierre Dan	09-Jun-2003	30-Mar-2004
17916	400244 USC	Michelle (Ara)	01-Nov-2003	01-Mar-2004
18630	402497 CSE	Koch Chris	01-Feb-2004	31-Dec-2004
18626	402667 CSN	Martin Paul	01-Feb-2004	30-Jun-2004
18647	403054 CSN	Sergio Robert	01-Mar-2004	31-Dec-2004
18274	500140937	Prable Accounts	01-Feb-2003	15-Jan-2004
18217	Abolte Levita	Michelle Rich	09-Jan-2004	30-Jun-2004
17919	Abbot Richard	Michael Ann	08-Dec-2003	01-Dec-2004
17225	Abraham Al	Brigitte	01-Nov-2003	30-Nov-2004
16568	Abraham Danny	Gary Alison	05-Aug-2003	30-Oct-2004
18059	Abraham Mihail	Grace Smith Debbie	01-Jun-2003	30-Dec-2004
16016	Achator Douglas	Michelle Stella	05-Mar-2003	31-Dec-2004
16408	Adams Kashia	Knowles Pam	14-Jul-2003	30-Aug-2004
18614	Adams Sarah	Bojars Michael	02-Mar-2004	31-Dec-2004
17572	Ahali Valdis	Prable Accounts	01-Nov-2003	15-Aug-2004
18636	Ahali Valdis	Prable Accounts	08-Nov-2003	15-Aug-2004
11004	Agella Bill	Rand Term	10-Mar-2003	31-Jul-2004
18276	Agostino	Cleopatra	17-Mar-2004	28-Mar-2004
17667	Ahlan Amy	Deanne Ball	09-Mar-2003	15-Aug-2004
16604	Anberg Nils	Osafin Mark	02-Aug-2003	31-Dec-2004

Fig. 64

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From: 01 January 2003 To: 01 March 2004

Supplier: Procom :: User: Supplier Accounting :: Date: 25-Mar-2004

Sales Balancing Report

Invoice Number	Contractor Name	Supplier Manager	Invoice Date	Bill Amount	Pay Amount
PO125	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO126	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO127	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO128	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO129	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO130	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO131	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO132	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO133	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO134	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO135	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO136	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO137	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO138	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO139	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO140	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO141	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO142	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO143	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO144	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO145	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO146	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO147	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO148	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO149	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO150	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO151	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO152	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO153	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO154	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO155	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO156	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO157	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO158	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO159	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO160	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO161	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO162	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO163	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO164	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO165	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO166	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO167	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO168	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO169	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00
PO170	Client: Bell Canada		31-Oct-2003	16,600.00	16,600.00

Fig. 65

650



Procom Contractor Management System

Logout | About Us

Kathy Oulahan

Reports My Profile About Us

Requisition Management

Contract Management

Timesheet Management

Procom Timesheet System - (P719R00)

Group: All Sales Person: All

Sales Report

From: January 2003 To: March 2004 Date: 25-Mar-2004

Invoice Issue Number Date Contractor Name Client Billable Amount Tax1 Tax2 Tax3 Total

Canada: Toronto

Alex MacKenzle

5897	Jan	2003	Yukon	Canada	7125.00	0.00	0.00	0.00	498.75	0.00	0.00	7623.75
5914	Jan	2003	British Columbia	Canada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5915	Jan	2003	British Columbia	Canada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6059	Jan	2003	Ontario	Canada	4035.00	0.00	0.00	0.00	163.18	0.00	0.00	4198.18
5952	Jan	2003	Ontario	Canada	428.00	0.00	0.00	0.00	22.22	0.00	0.00	450.22
6089	Jan	2003	Ontario	Canada	72.00	0.00	0.00	0.00	257.50	0.00	0.00	329.50
5958	Jan	2003	Ontario	Canada	1260.00	0.00	0.00	0.00	88.20	0.00	0.00	1348.20
5960	Jan	2003	Ontario	Canada	240.00	0.00	0.00	0.00	89.18	0.00	0.00	329.18

Fig. 66

660

Procom Contractor Management System | Timothy Smithson | Logout | Home

Administration | About Us

My Profile | Reports

Timesheet Entry

Not Saved

Time Period: Jul 1, 2004 to Jul 31, 2004

Timesheet for: ABC Company Ltd., Invoice to Alice Campbell

Timothy Smithson

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
Week #27								
Regular Hours								
Week #28								
Regular Hours								
Week #29								
Regular Hours								
Week #30								
Regular Hours								
Week #31								
Regular Hours								0

Previous | Next | Current | Clear | Pre-Fill | Save | Submit

If you would like to add a comment for Procom Accounting please enter it here:

662

670

Fig. 67

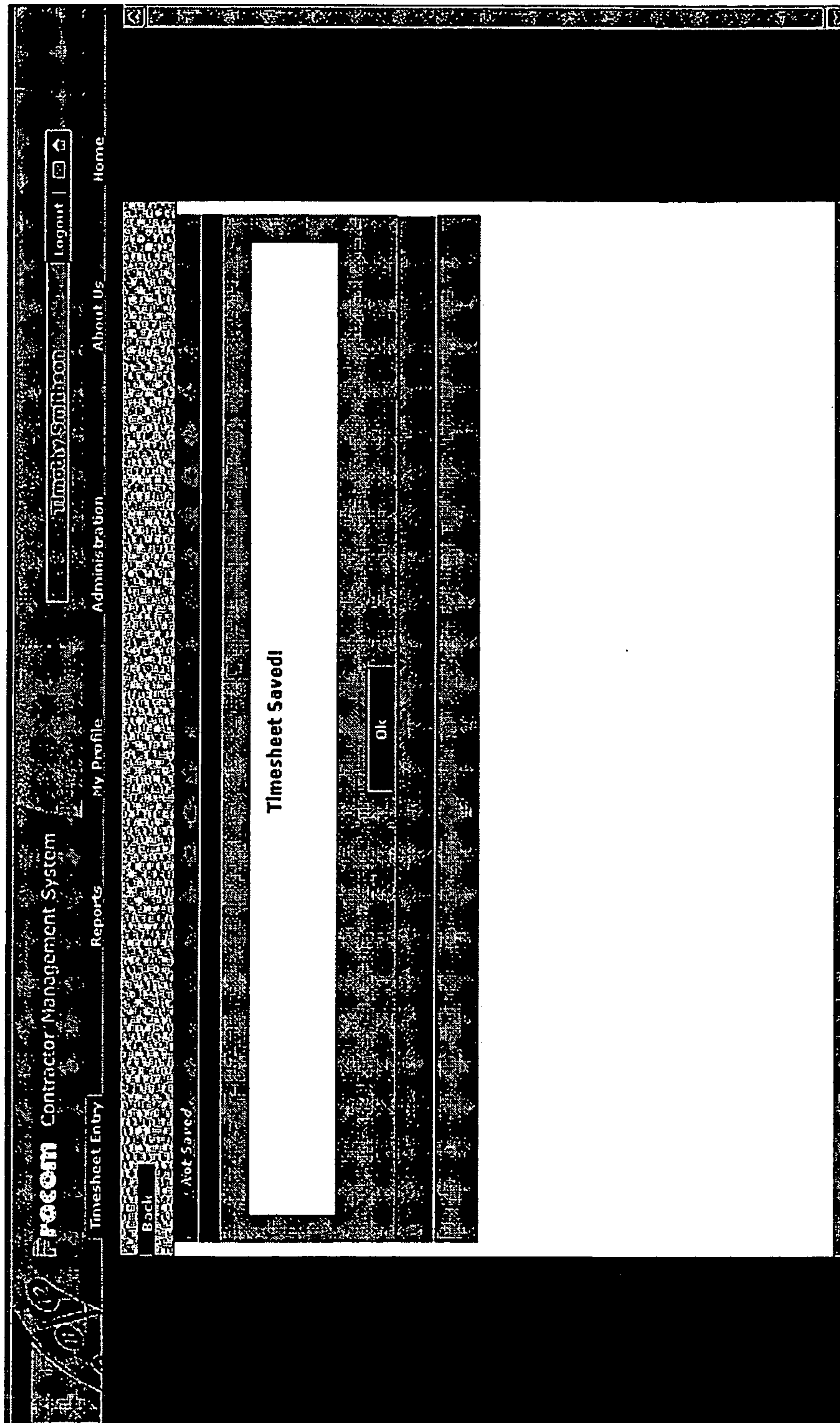
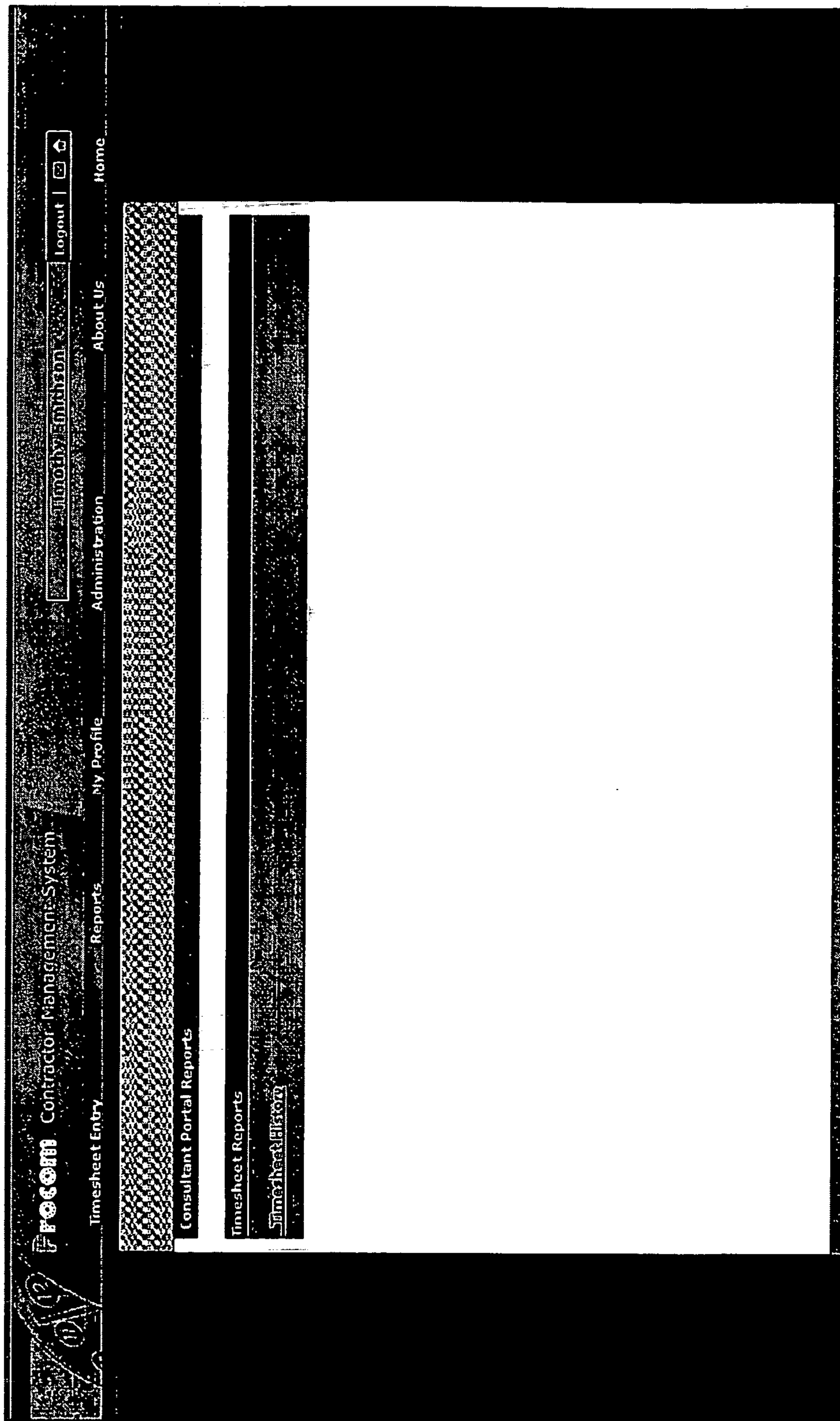



Fig. 68

680



690



 Contractor Management System
 Itimesheet Entry Reports My Profile Administration About Us Logout | Home

ItimesheetSystem US009 [Back](#)

[ItimesheetHistory](#)

Please, select the desired contract and click the button to create the report:

ABC Company Ltd. From:6/1/2003 to:12/31/2005

From Date	To Date	Regular Time	Overtime	Total	Status
7/1/2004	7/31/2004	165.00	0.00	165.00	Submitted for Approval
8/1/2004	8/31/2004	165.00	0.00	165.00	Approved
9/1/2004	9/30/2004	142.50	0.00	142.50	Approved
10/1/2004	10/31/2004	157.50	0.00	157.50	Approved
11/1/2004	11/30/2004	172.50	0.00	172.50	Approved
12/1/2004	12/31/2004	160.00	0.00	160.00	Approved
1/1/2005	1/31/2005	157.50	0.00	157.50	Rejected
2/1/2005	2/29/2005	160.00	0.00	160.00	Approved
3/1/2005	3/31/2005	157.50	0.00	157.50	Rejected
4/1/2005	4/30/2005	150.00	0.00	150.00	Approved
5/1/2005	5/31/2005	155.00	0.00	155.00	Approved
6/1/2005	6/30/2005	150.00	0.00	150.00	Approved
7/1/2005	7/31/2005	165.00	0.00	165.00	Approved
8/1/2005	8/31/2005	157.50	0.00	157.50	Approved

[Create Report](#)

Fig. 69

SYSTEM AND METHOD FOR IMPROVED TIME REPORTING AND BILLING

RELATED APPLICATIONS

The subject patent application is a continuation of U.S. patent application Ser. No. 10/862,762 filed on Jun. 7, 2004, the entire contents of which is incorporated herein by reference.

FIELD OF THE INVENTION

The present invention relates to time reporting and billing, and more particularly to an integrated time reporting and billing solution that facilitates billing and payment for time-related activities and manages contract workflow from end to end.

BACKGROUND OF THE RELATED ART

Manual time sheet and billing systems are well-known in the services industries as a way for service providers to record time spent on a work activity and thereafter be paid for the work. In a typical example, a contractor may submit to a potential client an estimate of the cost for a particular job in terms of time and materials. If the client reaches agreement with the contractor on the terms, the contractor's time can be recorded so that the client can review and approve the time spent by the contractor in performing the work. Typically, the contractor will write or type onto a timesheet the amount of time the contractor has worked over the course of the contract, usually on a per time unit basis (e.g., hours per day). Depending upon the length of the contract, the contractor might regularly submit aggregated time sheets covering a pre-determined period (e.g., one month) to the client for approval and payment. If the client approves the time spent by the contractor, the contractor can then draw up an invoice to provide to the client for payment.

While many variations to the above-described scenario exist, there are many common deficiencies inherent in the general procedures currently used to record and submit time sheets for approval and subsequent billing. For example, if a worker works extra hours on a given day or works on a holiday, overtime pay may be required. Additionally, if a worker's time entries are inaccurate, not signed, or not approved by the client, billing and payment for the work can be delayed. Further, if multiple projects are being coordinated by a general contractor, individual time sheets must be pooled for each project, and then each of the projects must be pooled in order for the contractor or a vendor representing the contractor to approve and submit a bill for payment.

Attempts at automating time sheet and billing systems to date have not met with widespread success. What is needed is an automated, integrated time sheet and billing system which can (1) incorporate client, timekeeper (e.g., contractor) and contract details, (2) receive, record and track individual time entries per timekeeper, (3) communicate time sheets to clients for approval in a client-desired format, and (4) upon approval, automatically generate invoices for submission to the client for payment. In addition to the above, what is needed is a customizable solution to time recording and billing that can accommodate multiple billing cycles, multiple languages, multiple currencies as well as local employment practices and regulations.

SUMMARY OF THE PRESENT INVENTION

The present invention provides a system and method that improve upon past manual practices and processes of time

reporting and billing. The present invention manages contract workflow from end to end, i.e., from requisition definition to payment ("req to check"). The present invention further streamlines the number of vendor contacts while allowing for maintenance of relationships through fair and open processes. The present invention further provides a consultant/contractor submission and tracking system (CSTS) and back office workflow management system (BOSS) to track and report vendor activity and contractor spend. The timesheet component of the present invention provides efficient management of the client/contractor interface for the provision of payroll, invoicing, specialized reporting, tax payments and year end tax requirements, for example.

The present invention can be used in any industry or employment relationship where in-house labor is tracked by time and/or where supplemental contract labor is required. In one embodiment, the present invention employs a sophisticated on line time reporting system to enable contractors (e.g., timekeepers) to report their time. This system enables the contractor to report time worked at a project level. When the contractor submits a time sheet for approval, the component parts can be sent to the individual client managers to obtain their approval for their component projects. Upon receipt of the individual approvals, for each project component can be submitted to the client for payment.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic diagram illustrating the interaction of users with various components of the present invention.

FIGS. 2 and 3 are block diagrams showing sample interactions among users of the present invention in a thin client embodiment.

FIGS. 4 and 5 are flow charts illustrating sample steps in the candidate submission and time recordation and billing aspects, respectively, of one embodiment of the present invention.

FIG. 6 is a schematic diagram showing various elements of the contract data input functions of the present invention.

FIG. 7 is a schematic diagram showing various elements of the language translation and currency conversion aspects of the present invention.

FIG. 8 is a schematic diagram illustrating an example time sheet front-end process in accordance with one embodiment of the present invention.

FIG. 9 is a schematic diagram illustrating an example time sheet approval and bill presentment process in accordance with the present invention.

FIGS. 10 through 14 show flow diagrams illustrating example time input and billing procedures associated with various embodiments of the present invention.

FIGS. 15 through 44 are example screen interfaces showing aspects of a manager interface in accordance with the contractor management component of the present invention.

FIGS. 45 through 64 are example screen interfaces showing aspects of a supplier interface in accordance with the timekeeper management component of the present invention.

FIGS. 65 through 69 are example screen interfaces showing aspects of a consultant interface in connection with one embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

As shown in FIG. 1, the system 10 of the present invention includes a management component 12 in two-way communication with at least one client 14, at least one vendor/

supplier **16** and at least one timekeeper **18**. The term “client” in this context refers to an entity contracting with one or more workers to receive performance, typically in the form of specified services, from the one or more contractors performing the work. The present invention allows the client **14** to review, approve and monitor the time usage of their contractors. Purchasing and accounting departments, for example, can monitor and evaluate the entire contract performance process at any time. A “client manager” can be a client user of the systems and methods of the present invention. The term “vendor” or “supplier” in this context refers to an entity that supplies contract resources, such as a placement or temporary contracting agency. Such entities typically act as an intermediary between qualified individuals and companies and clients desiring their employ. The terms “timekeeper”, “contractor” and “consultant” can be used interchangeably in this context to refer to individuals who are employed by the client to provide performance of a contract, typically in the form of services. A “managing consultant” can be an individual associated with one or more contractors, either as part of the contractor entity or the vendor entity, who might use the systems and methods of the present invention for coordinating placement and billing activities of individual contractors. In one embodiment, management component **12** is provided in the form of a secure web site accessible via a public network such as the Internet, for example.

As shown in FIG. 1, management component **12** includes sub-components such as access/login component **20**, candidate submission and tracking system (CSTS) component **22**, contract data/details input (CDI) component **24**, document tracking system (DTS) component **26** and timesheet component **28**. In one embodiment of the invention, components **24**, **26** and **28** can be referred to as the back office services system (BOSS) of the present invention. A billing component **29** can also be part of management component **12**, as shown in FIGS. **1** and **2**, or can be a separate component interacting with management component **12**.

Access/login component **20** provides a level of security to the present invention, by requiring any entity accessing the management component to be appropriately authorized and provided with at least one element of security (e.g., password, spoken input, fingerprint scan). CSTS component **22** allows client **14** to present requisition information to the system so as to receive qualified candidates for a particular job, and also allows vendors **16** and even individual contractors **18** to submit one or more candidates (which may be themselves, in the case of a contractor submission) in response to the requisition notice from the client. In short, CSTS component manages the candidate submission workflow from requisition to hire, tracks job status and candidate information, and reports on hiring process and other metrics.

CDI component **24** allows for the creation, editing, extension, reporting, storage and integration of contract details associated with a contracted-for job, which can trigger certain business rules affecting the timesheet and billing system of the present invention as will be described more completely hereinafter. DTS component **26** provides for the management, reporting, storage and tracking of documents and communications affecting components **22**, **24**, **28** and **29**, including invoicing and payment, as will be described more completely hereinafter. Timesheet component **28** provides interfaces and communications necessary to input, transmit and report timesheets for a particular contractor on a particular project, receive feedback and/or approval of the transmitted timesheet from the client, and process the timesheet for billing once approved. Timesheet component is the primary interface for the contractor. Billing component **29** interacts

with timesheet component to automate processing of invoices and payment in connection with approved timesheets, as will be described more completely hereinafter.

As described herein, certain exemplary embodiments of the invention can be implemented using a plurality of computers which, depending on circumstances, may communicate over one or more networks of computers such as, e.g., a local area network (LAN), a wide area network (WAN), a public network, such as the Internet, for example and/or another network. In various embodiments, as described herein, one or more servers, client computers, application computers and/or other computers can be used to implement one or more aspects of the invention. As an example, management component can be a single computer having memory and programming sufficient to accommodate the requirements of sub-components **20**, **22**, **24**, **26** and **28**. Alternatively, individual dedicated computers can be provided with memory and programming to accommodate the requirements of a respective component or sub-component. In one embodiment, the invention can be deployed in an application service provider (ASP) format, with users accessing the invention using a public network, such as the Internet, for example.

Illustrative computers for use with the present invention can include, for example, a central processing unit, memory (ROM, RAM, etc.), digital data storage (e.g., hard drives, etc.), input/output ports (e.g., parallel and/or serial ports, etc.) and data entry devices (e.g., keyboards). User computers may contain, in some embodiments, browser software for interacting with the server such as, for example, using hypertext transfer protocol (HTTP) to make requests of the servers via the Internet or the like. In addition, various computers can include other protocols as needed to effectuate communications described therein, such as, for example, file transfer protocol (FTP) for transferring, uploading and/or downloading files and/or the like.

Additionally, in some exemplary embodiments, the system can use relational databases, such as, for example, employing a relational database management system (RDBMS) program to create, update and/or administer a relational database. The RDBMS can be adapted to take Structured Query Language (SQL) statements entered by a user or contained in an application program and create, update and/or provide access to database(s). Some illustrative RDBMS's include Oracle™ databases, and IBM DB2™ databases. In some illustrative embodiments, one or more user computers can be provided, such as, for example, as a LAN-based system. The user computers can include an appropriate operating system, such as, for example, Windows NT™ or other systems known in the art. The system can also provide an object based graphical user interface (GUI) on one or more user computers.

In some illustrative embodiments, process steps can be carried out via computers by way of their central processing unit (CPU), which can communicate with a set of input/output (I/O) devices over a bus. The I/O devices can include, for example, a keyboard, mouse, video monitor, printer and/or other devices. The CPU can communicate with a computer readable medium (e.g., conventional volatile or non-volatile data storage devices) and/or memory over the bus. The interaction between a CPU, I/O devices, a bus and a memory will be appreciated by those of ordinary skill in the art. Memory can include, for example, data and can also store software. The software can include a number of modules for implementing the steps of processes, such as computer implemented steps of the processes described herein. Conventional programming techniques can be used to implement these modules.

In at least one embodiment of the present invention, the various methods described herein can be implemented in computer program products for use with a computer system. This implementation may, for example, include a series of computer instructions fixed on a computer readable medium (e.g., a diskette, CD-ROM, ROM or the like) or transmittable to a computer system via an interface device, such as a modem or the like. The medium may be substantially tangible (e.g., communication lines) and/or substantially intangible (e.g., wireless media, infrared, etc.). The computer instructions can be written in various programming languages and/or can be stored in one or more memory devices, such as semiconductor devices (i.e., chips or circuits), magnetic devices, optical devices and/or other memory devices. Transmission can occur using appropriate known communications technology.

As shown in FIG. 2, one embodiment of the present invention allows a client **14** and its vendors **16** and sub-tier vendors **19** to interact with management component **12** such as via a thin client interface. As shown in the embodiment of FIG. 2, invoice/billing component **29** is incorporated to allow the client **14** to view and approve contractor invoices, and to further allow bills to be automatically generated. It will be appreciated, in this embodiment, that both approved vendors **16** and sub-tier vendors and/or independent contractors **19** are in two-way communication with a vendor access component **17** of management component **12**. In this embodiment, vendor access component **17** can include timesheet component **28**, a supplier inquiry system (SIS) **76** and a retail sales tax component (RST) **34**. Vendor access component **17** can be part of management component **12**, or can be logically or physically separate from management component.

As shown in FIG. 3, SIS **76** allows administrative personnel **13** as well as suppliers, such as approved vendors **16** and sub-tier vendors and independents **19**, to access timesheet information **60**, reports **62**, tables **243**, records **246** and e-mails **247** formed in the operation of the present invention. Also, while FIG. 2 shows an embodiment of the invention with a billing option, it will be appreciated that the present invention can also operate in a thin client environment with no billing option. In such an embodiment, approved vendors can view vendor-specific information directly through a separate vendor access component **17**.

RST component **34** facilitates accounting and reporting of retail sales tax, which may or may not be attributed depending upon the jurisdictions involved in a particular client's employment of a particular contractor. In one embodiment, if the client is not exempt from sales tax, the tax would be added to the invoice at the time of presentment to the client for payment. If the client is not subject to retail sales tax, the present invention can facilitate completion of a purchase exemption certificate (PEC), as described below.

Regarding sub-tier suppliers, when a new sub-tier supplier is registered, the supplier must provide all required documentation, whereupon a central administrative authority will activate access for the sub-tier supplier. Each new supplier representative to be added must also go through a registration process. In one embodiment, both a central administrator and the primary contact for the sub-tier supplier need to approve access.

During the contract setup process, the sub-tier supplier must define a contract relationship. The first step is to describe the client details if they are not already available in the system and accessible to the sub-tier supplier. The second step is to describe the contractors details if they are not already available in the system and accessible to the sub-tier supplier. The third step is to describe the contract relationship and provide

details of the options and parameters relative to the contract. Such details can include, for example, payment cycle, billing rate, contract expiry date and provisions, purchase order terms, notification parameters, timesheet recording parameters, invoice and payment specifications, language designation and currency designation. The sub-tier supplier can also add, change or terminate the contract via this process.

In one embodiment, in addition to approved suppliers, sub-tier suppliers are provided with online real time access to details of their contracts at any time of day, week, month or year via SIS **76**. The communications component of the present invention, which can be part of DTS in one embodiment, can issue alerts to the sub-tier suppliers and any managing consultants according to business rules which identify matters of concern, such as purchase order (PO) exhaustion, contract expiry, time sheet rejection, and/or missing time sheets. It will be appreciated that the sub-tier suppliers can use the present invention to track the processing of any invoice for their contractor from initiation up to completion, including receiving an indication of where the invoice stands in the process, as well as date and time stamps indicating when every relevant event was completed.

In order to invoke the timesheet and billing management features of the present invention, certain factors should be in place or certain preliminary events should occur. For example, there should be a client and a contractor to use the present invention. FIG. 4 illustrates example process steps involved in requisitioning labor for performance for the client. As at **40**, the vendor and/or supplier of contractor assistance is inputted, and access to the vendor is granted via password or the like as at **42**. Available jobs are then loaded as at **44** and presented for viewing by the vendor as at **46**. Upon finding appropriate job matches for candidates affiliated with the vendor, the vendor can submit such candidates as at **48**. Client can then select candidates for interview and make offers as deemed appropriate as at **49**. Example user interfaces associated with the above steps will be described in connection with accompanying figures hereinafter.

FIG. 5 illustrates sample process steps involved with contracting with a contractor, receiving timesheets from the contractor and providing payment from the client. As at **50** in FIG. 5, the selected candidate can accept the client's offer of work and the candidate's information can be inputted into the system. A contract can then be sent to the vendor for the candidate as at **51**. Once the candidate is admitted for work as a contractor as at **52**, the contractor can be provided with access to the system of the invention as at **53**. During course of performance of the work and as agreed by contract, the contractor can then input time into the system as at step **54**. This time is then presented to the client for approval in accordance with the details described hereinafter, and if the client is agreeable to the entered time, the client notifies the system of approval of the contractor's time as at **55**. The system of the present invention then approves the invoice presented by the contractor/vendor and issues payment as at **56**. The vendor then receives payment as at **57**. Example user interfaces associated with the above steps will be described in connection with accompanying figures hereinafter.

One aspect of the present invention is the ability to document and manage contract information on an individualized basis. Step **51** in FIG. 5 refers to sending a contract for work to the vendor. Once the contract is approved and executed by the parties, contract details can be input into and/or extracted by contract data input (CDI) component **24**. In one embodiment, a client database is provided which stores client details, a contractor database is provided to store contractor details, and a contract database is provided to store details of the

contract. In a further embodiment, a separate component such as CDI component **24**, for example, can be used to extract details from the client and contractor databases to generate the entry into the contract database, thereby defining the contract relationship to the utmost detail. In one embodiment, this component can be called the “Costanza” component.

In one embodiment, the system specification can support multi-lingual and multi-currency (e.g., bill in one currency, receive payment in another) environments, even within the same contract relationship. By storing contract details, the present invention can customize certain aspects of the user interfaces. For example, with knowledge of the length of a contract (e.g., two months) and expected working hours (Monday-Thursday, 8 hours per day), the timesheet interface for the contractor can be customized. As another example, if the client operates in the Spanish language and deals in Euros for currency, the client interface can be reflected as such. In one embodiment of the invention, access to appropriate currency conversion and language translation databases is provided. In another embodiment, a link to a current currency conversion database on the Internet is provided to ensure the most up-to-the-minute conversion rates. In all such cases, a user profile created and stored using interfaces **14**, **16** and/or **18**. The language preference of each user dictates the language that the user will work in, and this applies to all screens, e-mails and error messages. One person can send an e-mail in the language of their preference (i.e. Spanish) while another person receives the same e-mail in the language of their preference. With regard to multi-currency, a client can be billed in one currency while the contractor is paid in another currency. In one embodiment, currency conversion rates are set each day, and the rates are reported in the details of the invoice/billing document.

All elements of the system can be brought together at execution time including field/tab labels, warning messages, page text and e-mails, for example. All such data can be stored in tables as at **243** in FIG. **6** and brought together at execution time. As an example, if the user speaks French, then the French data is retrieved, and if the user speaks English, the English data is retrieved. Support for a new language can be provided by loading the data base that contains the data elements. FIG. **7** is a schematic diagram showing how a French-speaking client **14** dealing in Euros as currency can interact with an English-speaking supplier **16** dealing in Canadian dollars using the system of the present invention. As shown in FIG. **7**, translation **111** and conversion **112** component can be integrated with management component **12** to provide the translation and currency conversion respectively necessary for seamless operation by client and vendor. It will be appreciated that the invention can operate equally well if only one of the currency conversion or language translation is necessary. For example, where both client and vendor deal in Canadian dollars, but the client’s preferred language is French and the vendor’s is English, then only the language translation component **111** is invoked. Where the two parties operate in the same language, but deal in different currencies, only the currency converter component **112** is invoked.

As further shown in FIG. **6**, CDI component can store client records in a client records database **246**, and can store client document tables in a document table database **243**. CDI can further store e-mails in an e-mail backup database **247**. Administrative personnel **13** can manipulate the set up and contents of client records database **246** and document table database **243** via table maintenance utility **244**. Also, administrative personnel **13**, approved vendors **16** and sub-tier vendors **19** can access SIS and CDI, which can further communicate with each other. As described earlier, SIS permits

access to items such as, for example, timesheet information **60**, reports **62**, tables **243**, records **246** and e-mails **247** formed in the operation of the present invention.

It will be appreciated that the present invention provides an internal security architecture sufficient to ensure that any sub-tier suppliers only have access to their own contractor and client details and to no other supplier’s details or to the broader company (client) details. Entries are subject to automated comparison to internal records to ensure that client names and locations are correct and not entered incorrectly, the client parameter defaults which are subject to customization at the contractor level are compatible with the client manager’s preferences and the client’s preferences, and entries are stamped according to at least the date, time and author to provide a complete audit trail.

As shown in FIG. **8**, time sheet system **28** and billing system **29** interact to process timesheets as required (e.g., “blue ink” signature, electronic) by the client **14**. Timesheet requirements can be indicated by the client at the time contract details are entered into the system of the present invention. In one embodiment, timesheet component **28** includes a contract term implementation component to automatically set timesheet recordation and transmission protocols pursuant to the contract terms and/or the client’s preferred format indication. Once a contractor has finalized his or her timesheet, if the timesheet is permitted by the client to be submitted in electronic form, the time sheet system can submit it to client as at **101** for client review. If the timesheet must be submitted with “blue ink” signature, a hard copy **30** can be printed using timesheet component **28**, signed and faxed or otherwise transmitted as at **102** to billing system for presenting to the client. In the case where the contractor and client are in close physical proximity to one another, a blue ink signature time sheet can be hand delivered to the client for approval. If the timesheet is not acceptable, the client can provide explanatory feedback as at **103** to the contractor via the timesheet system **28**. Such feedback can also be directed by the client to the client’s accounting department and/or the contractor’s managing consultant. If the timesheet is acceptable, the client can indicate such as at **104** to billing system **29**.

As further shown in FIG. **8**, the CDI component **24** of the present invention can store contract details in database **246** for use by billing system component **29**. Billing component **29** can retrieve items such as the invoice history for the client, or purchase order details, and forward such information to the client **14** as at **105** at the appropriate time. It will be appreciated that billing system component **29** can also present hard copies **31** of invoices and billings, and can transmit information **32** using electronic data interchange (EDI) to clients. As described earlier, RST component **34** facilitates accounting and reporting of retail sales tax, which may or may not be attributed depending upon the jurisdictions involved in a particular client’s employment of a particular contractor. In one embodiment, if the client is not exempt from sales tax, the tax would be added to the invoice at the time of presentment to the client for payment. Such information can be presented in an RST allocation report as at **37**, for example. If the client is not subject to retail sales tax, the present invention can facilitate completion of a purchase exemption certificate (PEC) **39**, as required.

The front-end time sheet component **28** of the present invention complements the billing component. The time sheet component provides the primary interface to the contractor. Business rules can be employed to minimize input errors, such as, for example: (1) automatically cross footing all calculations; (2) identifying federal, state holidays according to

the work location with cautions being made when data is entered to ask the worker to be sure that they worked on a holiday; (3) comparisons of hours worked to individual client policies; (4) formatting of all screens and communications (i.e. e-mails) in the recipient's language of choice; and (5) implementation of complete purchase order (PO) management and control. In managing purchase orders and in performing other functions, the present invention can provide messaging to various parties via communications component. For example, communications component can note cautions to contractors when budgeted funds are not sufficient to pay for reported hours, can note cautions to client managers with forecast of when budgeted funds will be (i.e. have been) depleted, and can further note cautions to contractors and clients alike when contracts are going to expire or be exhausted of funds, etc. The present invention further provides for rejection of contractor data entry according to client specific business rules. Communications component can store default triggers or triggers specially indicated at the time the contract details are input, so as to know when to inform the appropriate parties.

With regard to purchase order management and control, it will be understood that contracts are commonly for a fixed elapse time and/or for a maximum dollar amount. In one embodiment of the present invention, the time sheet system obtains information from CDI to track the contract expiry date. Also, the time sheet system can be implemented so as not to allow the contractor to enter time past the contract end date, which can be the last day on the timesheet. Further, the system of the present invention can provide a warning if the PO amounts are nearly exhausted, depending on client requirements. In one embodiment, e-mails are not automatically sent to the client, and the client is informed of purchase order status when the timesheet is approved online, again depending on client requirements.

In one embodiment, the time sheet may allow the contractor to enter time past the contract end date (if an option parameter for the client permits doing so). In this embodiment, the system can caution the contractor with a warning that the contract has been completed and there may be no payment made on that basis, and an e-mail or other communication can be sent to the managing consultant alerting to the attempted entry after contract completion. In both instances, prior to the schedule completion date, the system sends an e-mail to the managing consultant, if any, reminding of the expiry.

In one embodiment, the time sheet system of the present invention tracks the remaining approved funds, and the balance remaining is reduced with each issued invoice. When each invoice is submitted for electronic approval the client receives an indication of the funds remaining in the PO, the working days until the PO is exhausted, and the projected completion date for PO exhaustion at a normal consumption rate. When the PO is close to exhaustion (the number of remaining days for the warning is a parameter in the billing system), e-mails or other communications can be sent to the managing consultant, informing of the PO exhaustion. The managing consultant can intercept these e-mails and modify/terminate in his/her sole discretion. When the PO funds have been exhausted, the time sheet system will caution the contractor that time entered does not have funds in the PO to pay and he/she may not be paid.

With regard to the billing component, once the invoice details have been determined, the resulting invoice can be presented to the client in a variety of ways. For example, a single hard copy invoice with time sheet can be provided for each contractor. Alternatively, a consolidated invoice can be

provided, with consolidation being by client, client department, line manager, or project. It will be appreciated that invoices can be presented in hard copy format or electronically as in portable document format (PDF) or using electronic data interchange (EDI).

The time sheet and billing components can also interact with DTS and/or communications component to integrate system-generated communications via e-mail in support of the automation of the overall invoicing and billing process. For example, when a new contract is set up, the contractor can be contacted by e-mail and provided both a welcome and an introduction to the time sheet system with instructions on its usage and related process. Also, when a contract is nearing expire, the contractor can initiate the sending of requests to the system manager requesting information on the status of the contract and its possible extension. Further, when a contract is completed, the system can send post contract surveys to client managers to solicit their report on the performance of the contractor. Where a client contract requires written notification, the system can ensure that such notification is sent according to the terms and conditions of the contract. In one embodiment, the client can specify not only the format of time report submissions (e.g., blue ink, electronic, etc.), but also the preferred notifications to be sent to the client and/or the contractor (e.g., contract is nearing expiry, PO maximum has been exceeded, reasons for denying approval to timesheets). The client can further specify business rules and/or automated controls for system operation with regard to one or more vendors and/or contractors, as described more completely below.

FIG. 9 illustrates an example electronic time sheet approval and bill presentment process in accordance with one aspect of the present invention. As shown in FIG. 9, completed time sheet **40** can be forwarded for client approval **41** electronically (with a copy to DTS component **26** as indicated at **42**), which approval can then be sent electronically as at **43** to DTS component **26**. DTS component can notify the time sheet submitter that the time sheet has been approved, and can also store timesheet approval information in SIS database **45**, so as to be available to SIS and thereby allowing vendors to track approvals accordingly. Upon receipt of individual approvals for each contractor, DTS can submit a consolidated report **46** supported by individual invoices **48** for each project to the client for payment. The consolidated invoice data can be stored in database **47**.

Regarding time sheet approval, during the billing cycle, the contractors record the time that they worked. The details are entered at a level as specified by the client (e.g., by project, by day, or by other agreed upon unit). During the time sheet completion process, the process of entering time is subject to one or more automated controls. For example, a maximum purchase order (PO) amount can be entered to control time input. In such a process, the billing system of the present invention maintains a running record of the funds accrued under a PO and ensures that the contractor does not enter time which when multiplied by a "per unit" rate would exceed the maximum funds allotted under the assigned PO. A series of integrated warnings and calculations of projected days to PO exhaustion can be reported to the client manager, vendors and sub-tier vendors during the life of the contract as a means of facilitating cost management. Such notices or warnings can be pre-established for all contracts as default attributes, or can be actively managed, added and/or changed by the client. In one embodiment, notifications and warnings can be actively established by a vendor, sub-tier vendor and or contractor with or without the approval of the client.

Another example control measure is the expiry date. Using this control, the billing system knows the last day of the contract and will not permit the contractor to input hours for any day after that contract end date. Another example control measure is statutory holidays. The billing system knows the work location and the statutory holidays which apply to that jurisdiction. The system will provide the contractor with cautions if the contractor enters hours worked in a statutory holiday.

With regard to submission reminders, timely submission of time sheets is enhanced by automated reminders. Each billing period the system monitors those contractors who have not submitted a time sheet for the billing period. A parameter in the system tells it the number of days before or after the end of the billing period that a time sheet should have been received by. The system uses this detail in combination with its knowledge of the billing period end date to determine if a reminder e-mail should be sent to the contractor asking for them to complete and submit the time sheet. For example, if a company wants the time sheet in within 2 business days after the end of the billing period, then the parameter would indicate +2 (2 days after) and if the time sheet were not submitted 2 days after the end of the billing period the e-mail would be sent.

Upon receipt of the complete invoice and supporting time sheet, which can be in secure Adobe™ PDF format, for example, the client **14** can e-mail an approval **43** to be sent to DTS and/or billing component, or the client can print out the time sheet and sign the time sheet, thereby providing a “blue ink” signature, which can then be returned to and processed by the billing component **29** for eventual payment. Depending on communication times, the entire process of time sheet approval through to the return of the complete invoice can occur substantially in real-time.

With regard to “blue ink” signature requirements, the present invention appreciates that many corporate entities or clients require an original signature for timesheet and invoice processing. Such signatures are provided the name “blue ink” and can be required of the contractor, the client, or both. The challenge in such situations is one of obtaining electronic approval so that the invoice billing can proceed while also providing a hard copy time sheet for signature. One embodiment of the present system requires that the contractor print off a time sheet and present it for signature. At the time the contractor indicates that the time sheet is submitted, the electronic time sheet can be locked, whereby no further changes are allowed to it. Then, the billing system is informed of the hours on the time sheet and an invoice is created and put into a pending file. When the contractor sends in the signed time sheet (blue ink), an operator tells the system that a time sheet has been received and indicates the hours on it. If the hours on the blue ink time sheet match the hours on the invoice, then the invoice is released. The time sheet and invoice are matched up and sent to the client.

In another embodiment of the present invention, electronic presentation is used. In this embodiment, when the contractor has completed the time sheet, it is submitted for approval, and the time sheet is transmitted to the client manager who can review and approve or reject it as previously described. Upon approval, the billing system is notified of the approval. In one embodiment, for blue ink clients, the timesheet can be converted into a PDF or similar attachment, the invoice can be prepared as a PDF attachment, and both can be e-mailed back to the client manager. The completed time sheet can include an indication that it has been approved, along with the date and time of approval. The client manager can then print them off and apply a “blue ink” signature.

Regarding the electronic approval process, it will be appreciated that the time sheet system of the present invention records time data as provided by the contractor, and time is entered within the selected billing cycle. In one embodiment, the time sheet supports at least fifty-two (52) standard billing cycles, with the ability to introduce an unlimited number of other billing cycles. Further, within one line manager, there can be multiple billing cycles depending upon need. The billing cycle is unique by contract at the contractor level, and at the end of the billing cycle, the contractor can submit the time sheet for approval. Upon submission by the contractor, the billing system is notified of the submission and provided details of the hours. At this point, generation of the invoice can occur and generated invoices are kept in a print pending file. In one embodiment, the client is then notified of the submission by e-mail and provided a hot link to the time sheet for review. Upon approval by the client, the billing system is notified of the client’s actions, and if the time sheet is rejected the invoice in print pending is highlighted.

It will be appreciated that management component **12** can include software to facilitate certain business processes as part of a comprehensive contract management service (e.g., the Procom SoftLanding™ program, commercially available from Professional Computer Consultants, Ltd. of Toronto, Canada) in connection with the present invention. Such business processes can include, for example, corporate governance, document management, contractor performance reviews, project budget control and reporting, rate analysis, “psuedo-employment”, retail sales tax information and cost projection. It will also be appreciated that the present invention can be used in stand-alone mode as shown in FIG. **10**, as well as alongside a vendor or client’s own timesheet and/or billing software. As shown in stand-alone mode in FIG. **10**, contractor time input **70** is stored in a database of time sheet details **72**, and processed by management component **12** and billing component **29**. In processing, management component **12** can store time details in a separate database **74** which can be accessed by manager **14** and vendor **16** through SIS **76**. SIS can show details stored in database **74**, and can further provide other information such as contract expiry or contract termination information, time sheet deadline information, and accounts receivable and invoice information.

With regard to invoice format, the manner in which details can be presented to the client can vary. They can be project based, whereby the contractor can report details by a project code. They can be presented at the end of the billing period. One report can go to the line manager which lists the work of that contractor for the manager. This report may reflect one or many contractors on the same project. The line manager must indicate his/her approval. A second report is subsequently sent to administration for each contractor. It lists the individual projects that the contractor worked on. It is supported by the sign offs received from the line managers. Alternatively, it can be handled in a straight forward manner, where the contractors hours are reported for each day, totaled for the month, and/or one invoice is submitted for each approved time sheet. Invoices can also be consolidated, where multiple contractors work for the same client or same client manager. All invoice details for each contractor can be consolidated onto one invoice to the client or client manager.

With regard to invoice submission, standard submission (e.g., hardcopy) is where the invoice is printed onto paper and submitted. Electronic submission is where the invoice is submitted electronically using the client specified electronic presentation method. Some options are: EDI, PDF, Ariba, E-mail, and Excel.

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The information required by the various systems varies according to the client's preferences as they pertain to time reporting, time submission, invoicing, etc. Some of the required data elements are: (i) PO number and maximum dollars, (ii) Department number, (iii) Job name, description, type, (iv) applications worked on, technology description.

FIG. 11 shows the processing of information in sequence in both the system of the present invention and the outside system, where time is input as at 70 and processed through the outside client time reporting system 71, with details subsequently stored in database 72. The remaining processing takes place much as in FIG. 10, giving reference to the same reference numbers as above described in connection with FIG. 10.

FIGS. 12 and 13 show the invention and the outside system operating in parallel at the beginning of the accounting period, wherein time is input as at 70 and 90, respectively, and time sheet details are stored as at 72 and 92, respectively. The outside accounting system 94 then processes the information in parallel with management component 12 and billing component 29 (in the example in FIG. 13, billing occurs after reconciliation), and reconciliation occurs as at 95. If reconciliation is successful, the invoice is processed for payment as at 96. SIS 76 is also shown in communication with database 72 to enable reporting and communications as described above in connection with FIG. 11.

FIG. 14 shows a sample schematic of accounting and payment processing in connection with the present invention. As shown in FIG. 14, invoice/billing system 29 interacts with time sheet system 28 and SIS 76 as previously described. Invoice/billing system can issue payments via commercially accepted systems such as through electronic funds transfer (EFT) 89, Paychex™ 80, direct deposit 81, electronic data interface (EDI interface) 82 based on client particulars as at 83 and via cheque 98. Invoice/billing system can also track payments due as commissions, through communicating with commissions sub-system 84, which can issue commission statements 85. Commissions sub-system 84 and invoice/billing system 29 can also forward appropriate invoice, billing, payment and accounting details to an internal accounting component 86. Accounting component 86 and invoice/billing system 29 can record and track all issued and outstanding cheques 98. The issuing bank 87 can reconcile cheques as at 88 and can track EFT transfers and bank deposits as at 89, which can then be communicated to accounting component 86.

One aspect of the present invention is the "paid when paid" element. The payment option chosen determines when the payment is made. Payment can be upon the completion of the billing period, payment can be a predetermined number of days later (i.e. 30 days) or payment can be made, only when the client has paid for the provided services ("paid when paid"). As for the billing period, the units of work can vary as an option. Some of the more common units are hourly, daily, professional day, weekly, monthly, fixed price.

It will be appreciated that in each step described, the present invention can record and time stamp every system and user action, to provide full information to any inquirer as to what events happened and when.

The present invention incorporates various portals to enable clients, managers, suppliers and sub-suppliers to inquire into the status of their personal matters or responsibilities within the system process. In one embodiment, all parties have secure access with an integrated internal profile controlling the extent and level of detail that they can have access to. Sub-tier suppliers can provide links between individual invoices which the main supplier has processed on

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their behalf, and can also provide the sub-tier supplier's internal reference numbers to facilitate communication. At every step of the time reporting and invoicing and accounting processes, each action is recorded and time stamped as a means of fully informing any inquirer as to what happened and when.

Sample client manager user interfaces are shown in FIGS. 15 through 44. It will be appreciated that a "manager" for purposes of the present application can be a client manager or a project manager for a particular client who has contracted to have timekeepers provide work. A "managing consultant", on the other hand, can be associated with vendor and/or consultant as described above. As shown in the interface 150 in FIG. 15, the manager can access management aspects of the present invention by logging in as at 152 using login procedures as known in the art. As shown in FIG. 16, once logged in, the manager can view and manage timesheets for an individual consultant/timekeeper on a particular contract. In the interface display 160 shown in FIG. 16, the consultant and or timekeeper is identified as at 162 for each timesheet, along with the source and/or supplier as at 164, and the pay period 165, time worked 166, contract end 167, and timesheet status 168. Navigation and selection windows and icons as are known in the art can also be provided to enable the manager to view, print, approve or reject particular timesheets for the given consultant.

As shown in the interface 170 in FIG. 17, particular time period details 172 can be displayed for a given consultant in calendar format, for example. As shown in the interface 180 in FIG. 18, upon approval of a given submitted timesheet, the manager can receive a confirmation message as shown at 182, indicating that the system of the present invention has proceeded to notify the consultant. If the manager elects to reject the timesheet, a window can be provided as at 192 in interface 190 of FIG. 19, and the manager can enter the reason for rejecting the timesheet. As shown in interface 200 in FIG. 20, once the consultant's time sheet has been completed, the consultant can sign and send the timesheet electronically for approval, or if required, the consultant can print out the timesheet and subsequently sign the hard copy of the timesheet for transmittal to the client by fax or other means, as described above. Such traditional signature method can be called a "blue ink" signature method. As shown in the interface 210 in FIG. 21, notification of a time sheet submission can be by email, and appropriate details can be provided in the body of the email as at 212.

As shown in interface 220 of FIG. 22, the manager can view all contracts under management, including the supplier 221 of the timekeeper, the timekeeper's name 222, manager's name 223, start date 224, end date 225, and rate 226, for example. As shown in interface 230 of FIG. 23, contract 232 and client 234 details can be entered and/or displayed for editing. As shown in interface 240 of FIG. 24, required skills 242 can be entered and/or displayed for editing, such as might occur in creating a requisition for contracted labor, for example. As shown in interface 250 of FIG. 25, consultant details can be entered and/or displayed for editing as at 252. As shown in interface 260 of FIG. 26, supplier details 262 can be entered and/or displayed for editing. As shown in interface 270 of FIG. 27, client contact information 272 can be entered and/or displayed for editing.

As shown in interface 280 of FIG. 28, the manager can also manage requisitions using the system of the present invention, with a requisition management window shown at 282. As shown in FIG. 29, a new job requisition interface 290 can have input areas for various elements such as type of job (contract or full time) 292, start date 293, location 294, posi-

tion title **295**, duration **296**, billing rate **297**, job description **298**, and mandatory skills **299**, for example. As shown in interface **300** of FIG. **30**, the manager can view and manage requisitions according to job number **302**, for example. FIGS. **31** and **32** show sample user interfaces **310** and **320**, respectively, for changing the status of a particular job requisition already entered into the system of the present invention. FIG. **33** shows a sample interface **330** for searching for job requisitions by such example criteria as contractor name **332**, supplier/source **334**, position title **336** and job number **338**. FIG. **34** is a sample interface **340** for creating and generating relevant reports related to managed requisitions. FIGS. **35** and **36** show interfaces **350** and **360** which allow vendor/supplier information to be entered and/or edited.

FIG. **37** shows a user interface **370** identifying various report types which might be prepared for the manager, including for example, timesheet list by supplier **371**, timesheet not submitted by supplier **372**, timesheet history by consultant **373**, timesheet submission status **374**, invoice list by supplier **375**, and pay period summary **376**. FIG. **38** shows a sample report **380** of timesheets by supplier, including contract number **381**, manager name **382**, contractor name **383**, cycle **384**, period end **385**, status **386**, units **387**, and type **388**, for example. FIG. **39** shows a sample report **390** of timesheets not submitted for a given supplier using the same delimiters as shown in FIG. **38**. FIG. **40** shows a sample report **400** for timesheet history by consultant. FIG. **41** shows a sample report **410** for timesheets submission status. FIG. **42** shows a sample report **420** for invoice lists for a given supplier. FIG. **43** shows a sample billing summary **430**. FIG. **44** shows a sample profile view **440** for the manager interacting with this subset of functionality associated with the present invention.

FIGS. **45** through **64** show sample user interfaces as might be viewed and interacted with by a supplier using the system of the present invention. FIG. **45** shows a sample timesheet **450** as approved by a client, including the contractor's name **452**, client name **454**, timesheet details **456** and various navigational tools as is known in the art. FIG. **45** also shows a text field **458** in which a supplier can submit comments for consideration by other system users, such as a supplier's accounting department, for example. FIG. **46** is a sample interface **460** indicating a supplier's ability to manage requisitions using the present invention. In FIG. **47**, a sample interface **470** is shown which allows a supplier to submit candidate information for a particular requisition answer. Such information can include, for example, name **471**, job number **472**, availability **473**, rate **474**, skills summary **475**, and comments **476**. FIG. **48** shows a sample supplier interface **480** for selecting a particular requisition to manage, and FIG. **49** shows the detail **490** of a selected requisition **492**.

FIG. **50** indicates various report options **500** which can be selected and run by a supplier user of the present invention. Such reports can be, for example, a purchase order dollar expiry by manager, which is shown in greater detail in interface **510** of FIG. **51** including items **512** such as purchase order number, client name, contractor name, rate, dollars approved and dollars remaining, for example. Other purchase order (PO) reports from interface **500** can be: a purchase order date expiry by manager (shown in greater detail in interface **520** in FIG. **52**), a purchase order list by manager (shown in greater detail in interface **530** in FIG. **53**), and a purchase order detail (shown in greater detail in interface **540** in FIG. **54**).

Timesheet reports can also be provided as shown in interface **500** in FIG. **50**, including timesheet list by manager (detail shown in interface **550** in FIG. **55**), timesheet not submitted by manager (detail shown in interface **560** in FIG.

56), and timesheet submission status (detail shown in interface **570** in FIG. **57**). Billing reports can also be provided, such as full contract details as shown at **580** in FIG. **58**, **590** in FIG. **59** and **600** in FIG. **60**, as well as billing summary report **610** in FIG. **61**. A sample contractor details list report by salesperson **620** is shown in FIG. **62**, and a list of active contractors report **630** is shown in FIG. **63**. A sales balancing report **640** is shown in FIG. **64** and a sales report **650** is shown in FIG. **65**.

Consultant interfaces can also be provided, as shown, for example, in FIGS. **66** through **69**. FIG. **66** shows a sample timesheet **660** with fields **662** for timesheet data entry. FIG. **67** shows a sample confirmation page **670** indicating successful timesheet entry. FIG. **68** is an interface **680** allowing a selection of a timesheet history report, and FIG. **69** shows a sample timesheet history report **690**.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiments are therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the claims of the application rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

What is claimed and desired to be secured by Letters Patent is:

1. An apparatus for managing time related work activities of at least one worker for at least one client, said apparatus comprising:

(a) a computer system, said computer system including a time sheet component for electronically transmitting to at least one client information related to time worked by at least one worker, said time sheet component further including a time sheet interface for allowing a first user to electronically record time worked by at least one worker for a given time period;

(b) said computer system further including a management component for automatically analyzing time electronically recorded by said first user by comparing time electronically recorded for a specified period by said first user to at least one predetermined cost management criteria to obtain cost management information relating to time electronically recorded by said first user; and

(c) said computer system further including a communication component operably associated with said management component for automatically communicating to at least one user of said computer system cost management information obtained by said management component.

2. An apparatus as set forth in claim **1**, wherein:

(a) said management component is a web site accessible by said client and said first user by way of a public network.

3. An apparatus as set forth in claim **1**, wherein:

(a) said at least one predetermined cost management criteria is one of: (i) federal holidays, (ii) state holidays, (iii) at least one client specific business rule; (iv) required period to submit time sheet, (v) contract expiration; and (vi) purchase order exhaustion.

4. An apparatus as set forth in claim **3**, wherein:

(a) said communication component communicates to at least one vendor cost management information obtained by said management component.

5. An apparatus as set forth in claim **1**, wherein:

(a) said management component is accessible to said client so that said client can vary said at least one predetermined cost management criteria.

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6. An apparatus as set forth in claim 1, wherein:
- (a) said cost management information communicated to said at least one user includes at least one of funds remaining and days until purchase order is exhausted.
7. An apparatus for managing time related work activities of at least one worker for at least one client, said apparatus comprising:
- (a) a computer system, said computer system including a time sheet component for electronically transmitting to at least one client information related to time worked by at least one worker, said time sheet component further including a time sheet interface for permitting a first user to electronically record time worked by at least one worker for a given time period; and,
- (b) said computer system further including a management component for preventing said first user from recording time on said time sheet interface where time sought to be entered does not comply with at least one predetermined criteria relating to one of purchase order exhaustion and contract expiration.
8. An apparatus as set forth in claim 7, wherein:
- (a) said computer system further includes a communication component for informing at least one user other than said first user that time was attempted to be recorded that does not comply with said at least one predetermined criteria relating to one of purchase order exhaustion and contract expiration.
9. An apparatus for managing time related work activities of at least one worker for at least one client, said apparatus comprising:
- (a) a computer system, said computer system including a time sheet component for electronically transmitting to at least one client information related to time worked by at least one worker, said time sheet component further including a time sheet interface for permitting a first user to electronically record time worked by at least one worker for a given time period; and,
- (b) said computer system further including a management component for treating differently time sought to be entered by said first user that does not comply with at least one predetermined criteria relating to one of purchase order exhaustion and contract expiration from time sought to be entered by said first user that does comply with at least one predetermined criteria relating to one of purchase order exhaustion and contract expiration.
10. An apparatus as set forth in claim 9, wherein:
- (a) said management component provides a notification to at least one user that time sought to be entered does not comply with at least one predetermined criteria relating to one of purchase order exhaustion and contract expiration.
11. An apparatus as set forth in claim 9, wherein:
- (a) said management component prevents entry of time that does not comply with at least one predetermined criteria relating to one of purchase order exhaustion and contract expiration.
12. An apparatus as set forth in claim 11, wherein:
- (a) said management component is accessible by said client to allow said client to alter said at least one predetermined criteria to allow for entry of time even though the time sought to be entered did not comply with said at least one predetermined criteria prior to alteration by said client.
13. A method of electronically managing time related work activities of at least one worker for at least one client, said method including the steps of:
- (a) providing an electronic time managing system for managing time related work activities, said time managing

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- system including a time sheet component accessible by said at least one client and a first user;
- (b) operating said time sheet component to allow a first user to electronically record time worked by said at least one worker for said at least one client;
- (c) electronically monitoring time recorded by said first user to ascertain information relating to a purchase order issued by said at least one client for services of said at least one worker; and,
- (d) electronically transmitting updated purchase order information to a user based on said time electronically recorded by said first user.
14. A method as recited in claim 13, wherein:
- (a) said updated purchase order information includes funds remaining for a given purchase order.
15. A method as recited in claim 13, wherein:
- (a) said updated purchase order information includes number of working days until a given purchase order is exhausted.
16. A method as recited in claim 13, wherein:
- (a) said updated purchase order information includes a notice to at least one user that a given purchase order is nearing exhaustion.
17. A method of electronically managing time related work activities of a plurality of workers for a single client, said method comprising the steps of:
- (a) providing an electronic time managing system electronically accessible by said client and each of said plurality of workers;
- (b) operating said electronic time managing system to allow each of said plurality of workers to electronically record data relating to time worked for said client;
- (c) automatically consolidating said data relating to time electronically recorded by each of said plurality of workers; and
- (d) operating said electronic time managing system to allow at least one user to electronically access said consolidated data.
18. A method as recited in claim 17, further including the steps of:
- (a) consolidating said data relating to time electronically recorded by each of said plurality of workers to form a consolidated invoice; and,
- (b) electronically transmitting said consolidated invoice to said client.
19. A method as recited in claim 18, further including the step of:
- (a) storing time sheet details for each of said plurality of workers, said time sheet details include at least time worked by each of said plurality of workers for a given period;
- (b) operating said electronic time managing system to allow said client to electronically access said time sheet details.
20. A method of electronically managing time related work activities of at least one worker for at least one client, said method comprising the steps of:
- providing an electronic time managing system electronically accessible by said client and said at least one worker for managing time related work activities;
- operating said electronic time managing system to allow at least one user to input information specific to said at least one user;
- creating a user profile for said at least one user based on information input by said at least one user; and,
- operating said electronic time managing system based on said user profile.

21. A method as recited in claim 20, further including the step of:

- (a) limiting access to said electronic time managing system based on said user profile.

22. A method as recited in claim 20, further including the step of: 5

- (a) monitoring said user profile to ascertain at least one criteria of said at least one user; and,
- (b) adapting said electronic time managing system to satisfy said at least one criteria. 10

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